3DTOTAL'S

CONCEPT ART FOR GAMES

3DTOTAL.COM eBOOKS SERIES

*DPH WLWOH)LUVW SHUVRQ VKRRWHU

*HQUH 6FL¿ Year

7KH VHWWLQJ LV (DUWK DQG WKH SULVRQ SODQHW $VWXULD RI WKH JDPH LV RQ $VWXULD

3ORW VXPPDU\ /H[&UDQH D IRUPHU SROLFH RI¿FHU LV QRZ WKH FKLHI RI VHFXULW\ DW 6N\H *OREDO WKH ODUJHVW PDQXIDFWXUHU RI SKDUPDFHXWLFDOV RQ WKH SODQHW /H[GLVFRYHUV VRPHWKLQJ DERXW WKH FRPSDQ\ KH ZRUNV IRU WKDW KH VKRXOGQ¶W KDYH DQG WKLV VWDUWV D FKDLQ UHDFWLRQ WKDW FDXVHV KLP WR EH ZURQJO\ DFFXVHG IRU WKH PXUGHU RI KLV IDPLO\ DQG D ORFDO SROLWLFLDQ +H LV VHQWHQFHG WR OLIH LPSULVRQPHQW RQ WKH SULVRQ SODQHW RI $VWXULD 2Q WKH SULVRQ SODQHW KH LV FRQVWDQWO\ WDUJHWHG E\ WKH FULPLQDOV WKDW KH SXW WKHUH DOO WKRVH \HDUV DJR DORQJ ZLWK DQ XQNQRZQ HQHP\ ZLWKLQ WKH SULVRQ ZDOOV KLUHG E\ 6N\H [illegible] *OREDO¶V &(2 /DQFH 6KHSKHUG DQG 6KHS[illegible] NLOOHG LQ D SODFH ZKHUH QRERG\ ZLOO P[illegible] /H[LV WU\LQJ WR HVFDSH IURP WKH SULVR[illegible] FRQYLQFHG KH FDQ ¿QG WKH HYLGHQFH WR [illegible] IRUPV XQH[SHFWHG DOOLDQFHV DQG LV GL[illegible] E\ VKRFNLQJ EHWUD\DOV

7KH HQYLURQPHQW 7KH VHWWLQJ LV GDUN DQG FROG 7KH JLDQW URFN 7KHUH LV QR OXVK IROLDJH RU YDV DUH SLWV RI RLO DQG VOXGJH 7KH WHUUDLQ KDV MXWWLQJ RXW VSRUDGLFDOO\ WKURXJKRXW WKH ¿OOHG ZLWK ÀDVKHV RI JUHHQ OLJKWQLQJ ZKLFK

7KHUH LV D JLDQW SULVRQ IDFLOLW\ WKDW KDV E WKH JDOD[\¶V PRVW YLROHQW DQG HYLO FULPLQD DWWHPSWHG EHFDXVH RI WKH VKHHU IDFW WKDW SRVVLEOH 7KH H[WUHPHO\ KDUVK FOLPDWH DOR WKDW H[LVWV RQ WKH SODQHW PDNH LW VR WKDW FRQ¿QHG WR SULVRQ $W OHDVW WKHUH LV IRRG MDLO

[illegible] DV SDUW RI WK [illegible] SHULPHWHU VXUU [illegible] [LVWV GHH [illegible] VLRXV WDVN [illegible] [SDQGLQJ W

CHAPTER 01

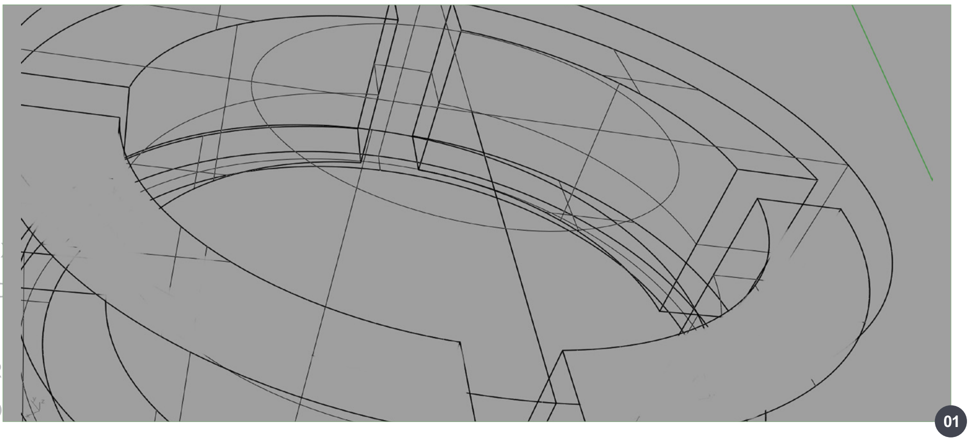
ENVIRONMENTS: PART 1

BY THOMAS PRINGLE

Concept Art for Games: Environments - Part 1

Software Used: 3KRWRVKRS

Introduction



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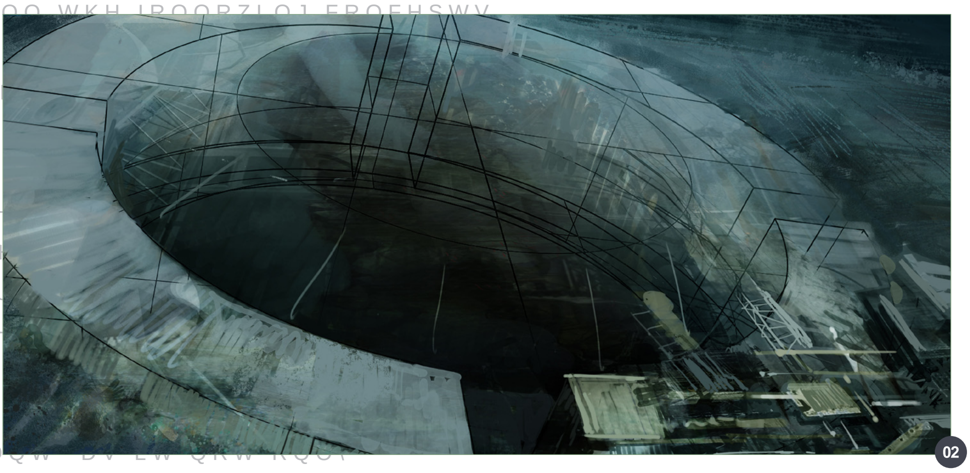

,¶YH GHFLGHG WR GHVLJQ WKH XQGHUJURXQG IDFLOLW\ 7KH GHHS ZLWKLQ LW DQG WKH ZK VKLHOGHG IURP WKH KRVWLOH IDFW LW LV EHORZ WKH SODQH URFN IRUPDWLRQV WRJHWKHU WKH LPDJH ZLOO KHOS FRQYH DQG KRVWLOLW\

7KLV VFHQH LV YHU\ LPSRUWDQW DV LW QRW RQO\ SURYLGHV D EDVH IRU WKH HQ JDPH EXW DOVR SURYLGHV D G HQWUDQFH WR WKH SULVRQ Z JUHDW LQWUR VHTXHQFH $ GH

)RU WKH HVWDEOLVKLQJ VKRW G\QDPLF DQJOH WKDW EULQJV

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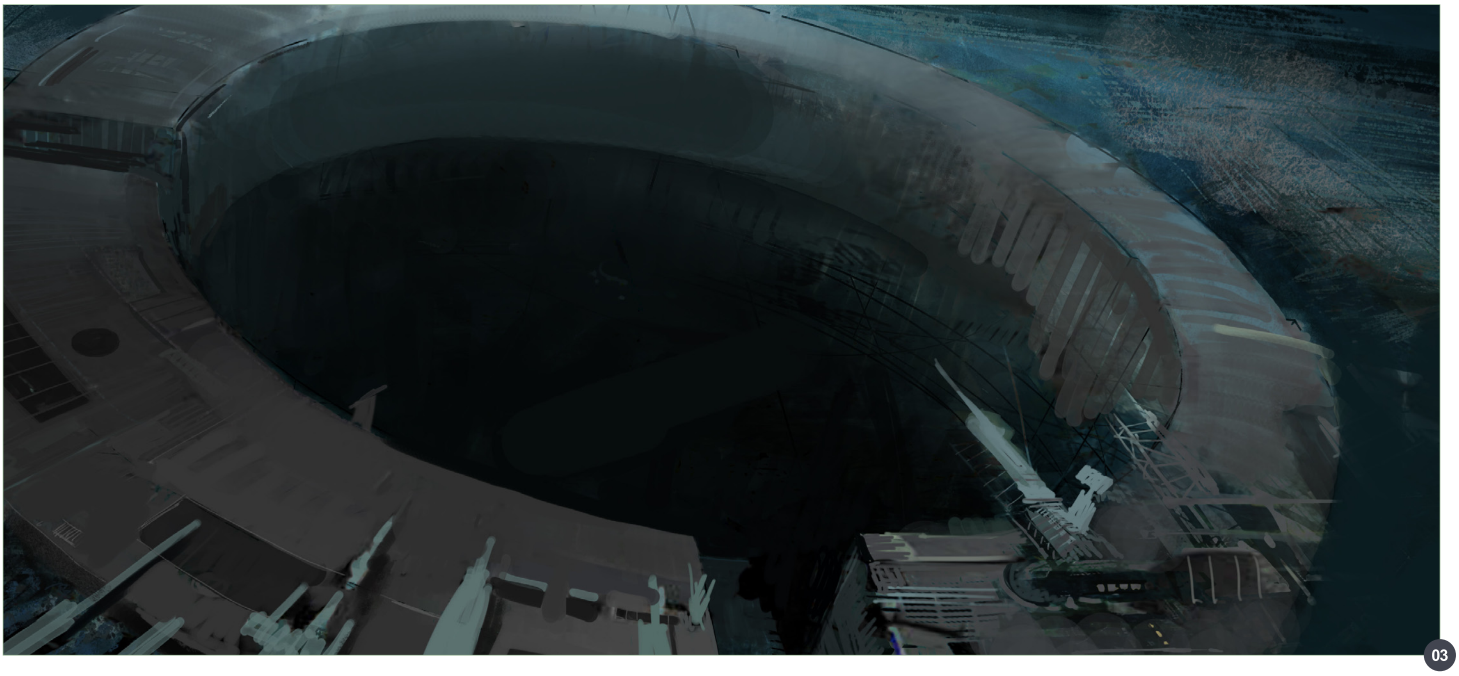
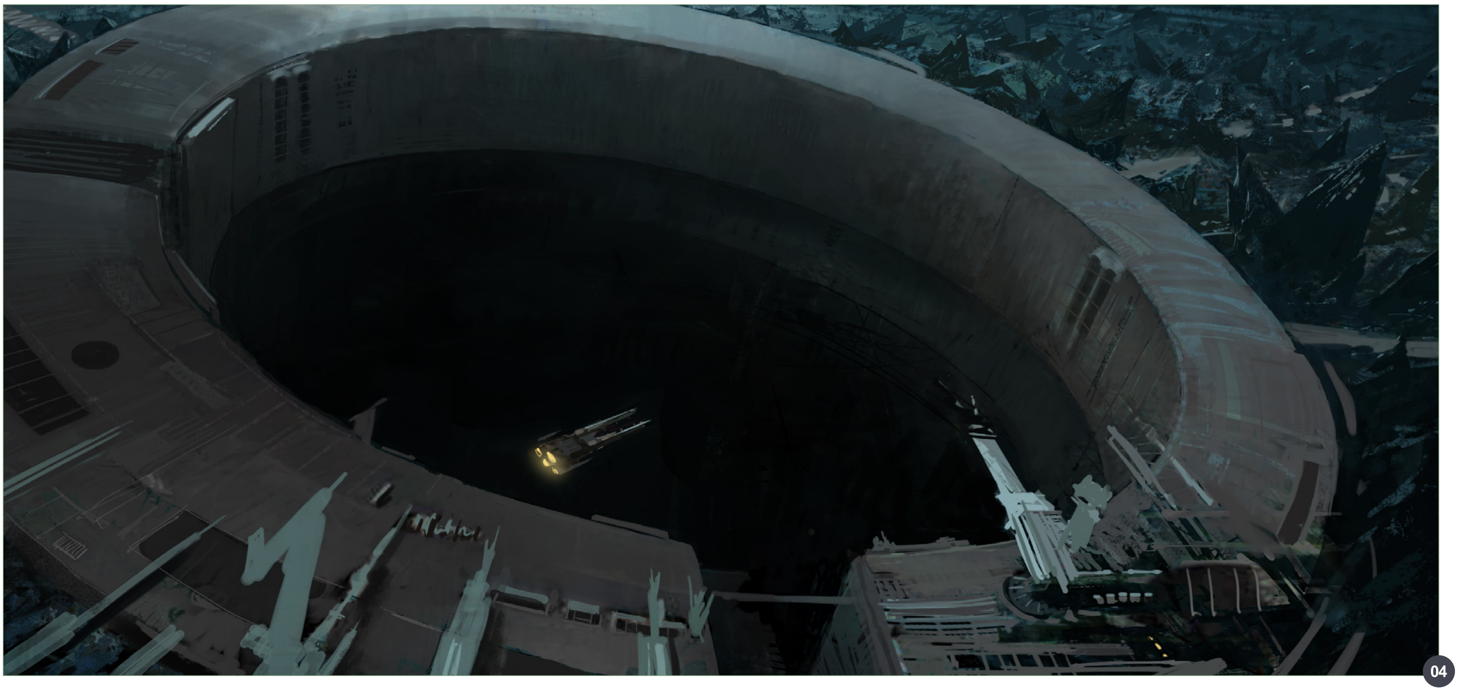
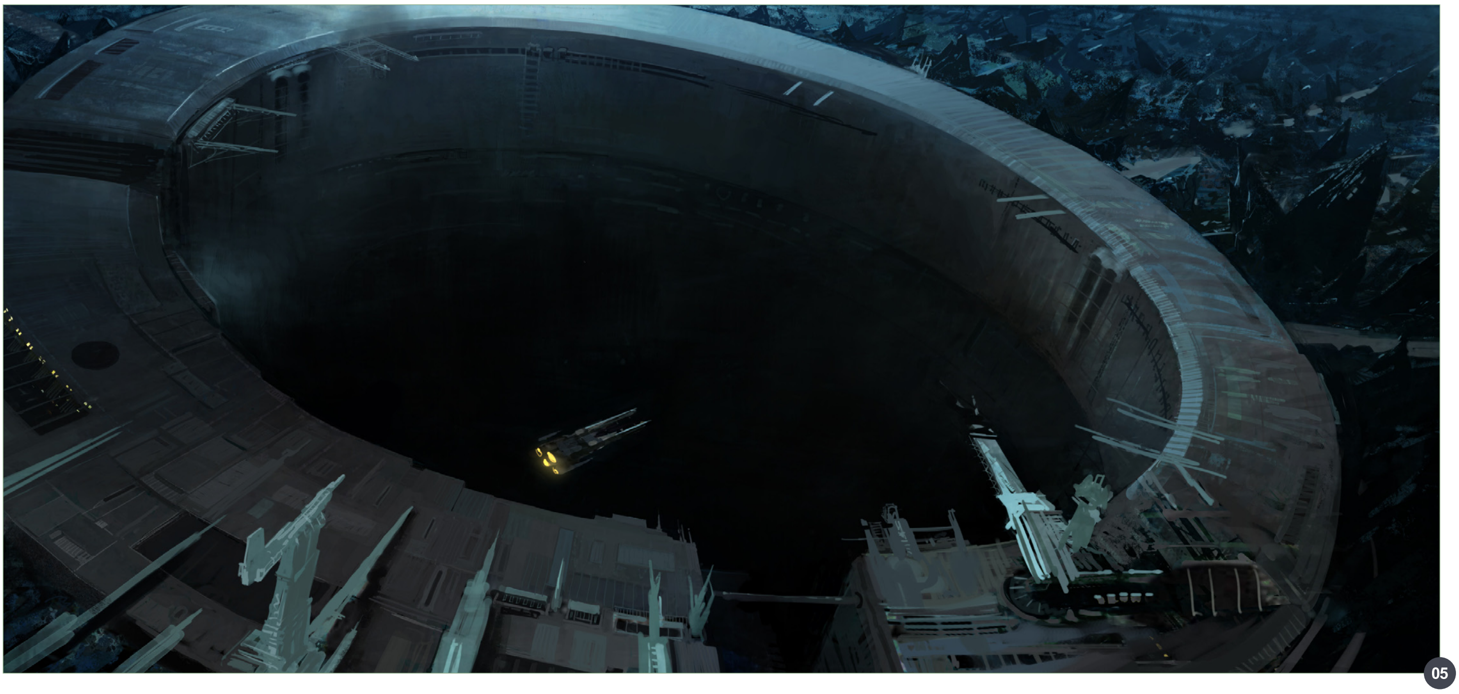




04

FRQFHSW LV WKDW RI D SULVRQKSHOFRQHSWRVLWLRQYDLWDOZKROHMG,HFDQHDWRDVKLIW WKH FRORUV
WKH FRORUV UHÀHFW D KRVWLOGHHYHQGSFRKG HQMHUURQWHQWRIWEOXHDEHHDGMXVWLQJ WKH KXH
WR JLYH WKH FRQFHSWV WKH ULJKW PRGH DQG IHHOLQJ Fig.05 7KLV DJDLQ LV WR SXVK W
Fig.02 , FRQWLQXH WKLV SURFHVV E\ IHXUWKHU ,UHQQRQSDLQW LQ IRJ W
WKH LPDJH , GR WKLV E\ FRQWLQXLQJWKHWRWEFRRVSHQH IXUWKHU
, FRQWLQXH WKLV SURFHVV XQWLO V,PKDOYHH HVWDEOLVKHGV LQHWKH IRUGHGUSRXQWGRDQGH LPDJH
WKH PDLQ GLVWULEXWLRQ RI WKHQFWLRQRJUWDKQHGVXDOUHYQ GLQJ WKHHLP DJHQGV FDUSHKLHU GH¿QLQJ
DFURVV P\ LPDJH ,W LV DOVR WRSIRUEDWFDNJWRXQ,GWUWKWR NHHSWKHRQ 7R GR WKLV , IRFXV RQ
GLUHFWLRQ RI WKH OLJKW KDVEDEFHHQJUQXRQGUSDRUDWHGJE\H ZLWKHRXUWWRPSKOLJKWQVRXUFH KLWV
QRZ ,Q WKHVH HDUO\ VWDJHVW,REOR RXNKHGHWDLOLQ,JGLRQ WKLVLQVWLH[WXUHFigO6GHWDLOQW QRW WR
EHIRUH JRLQJ LQFig.03 DQ7KGH WDGLHYHUW WKH YLHZHU¶V DWWHQWLRQ IURP WKH PDLQ IRFXV
PH D JRRG RYHUYLHZ DQG DOORIZWKHHFRQFHSWLGHU



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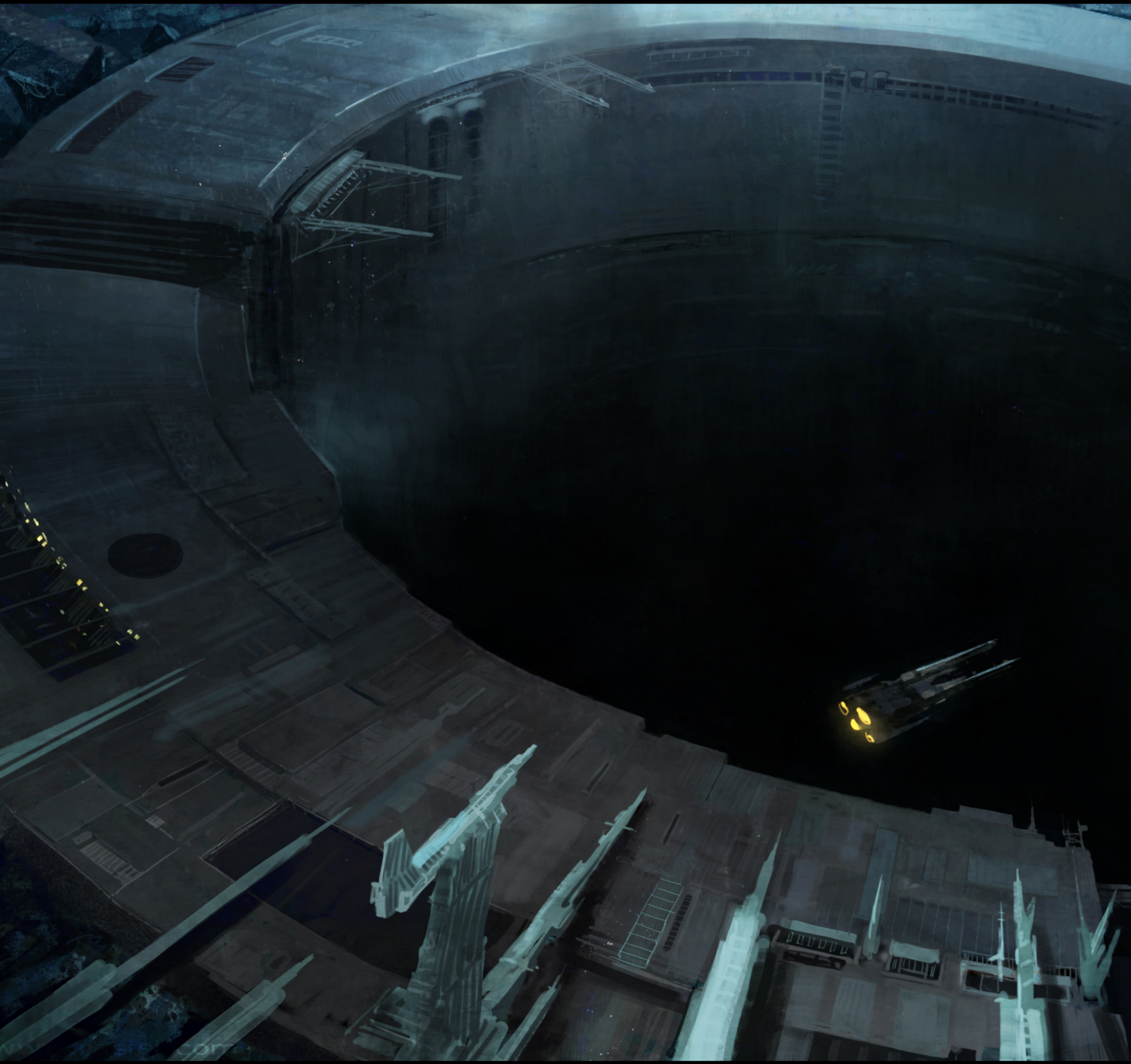


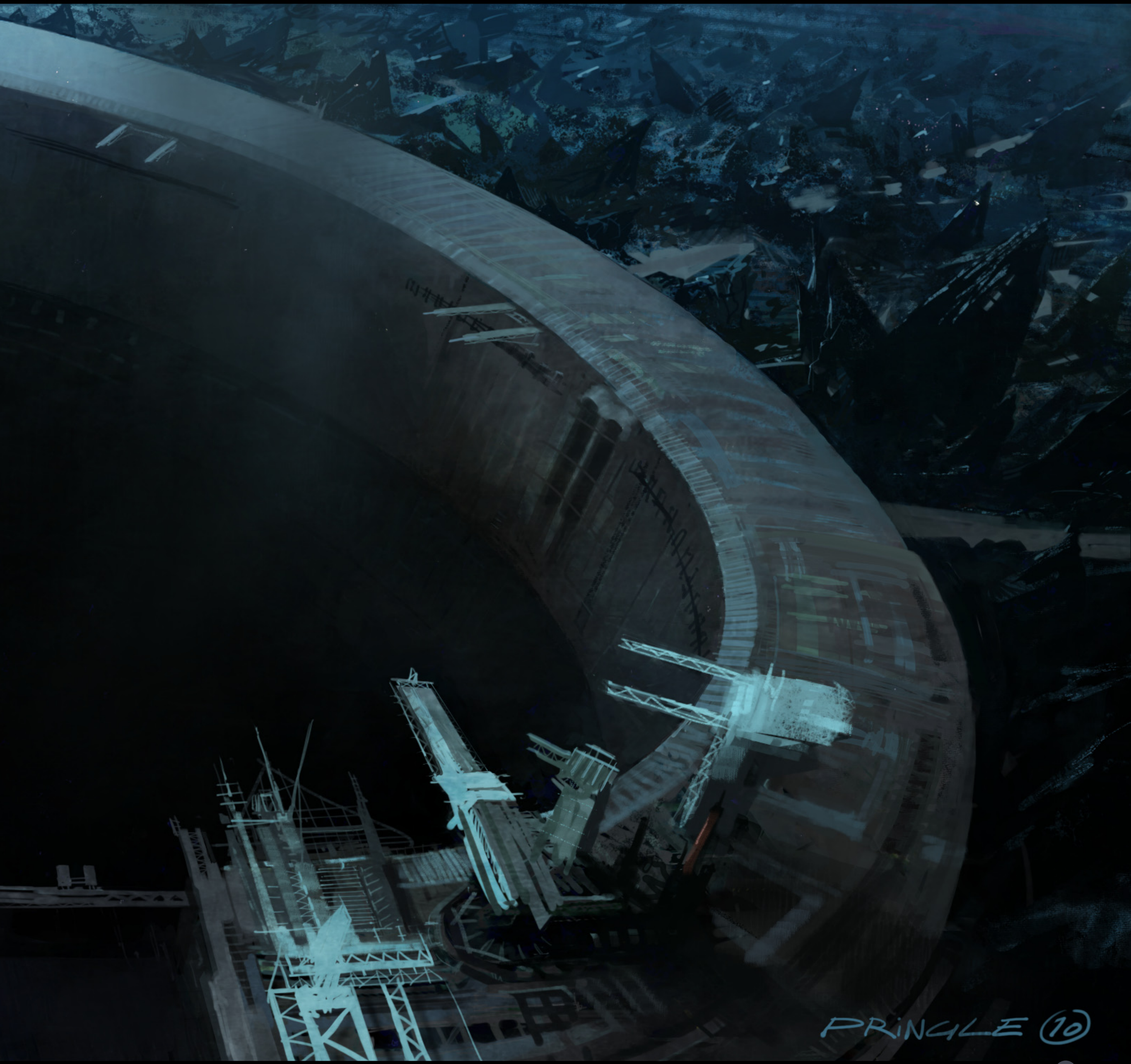
Thomas Pringle

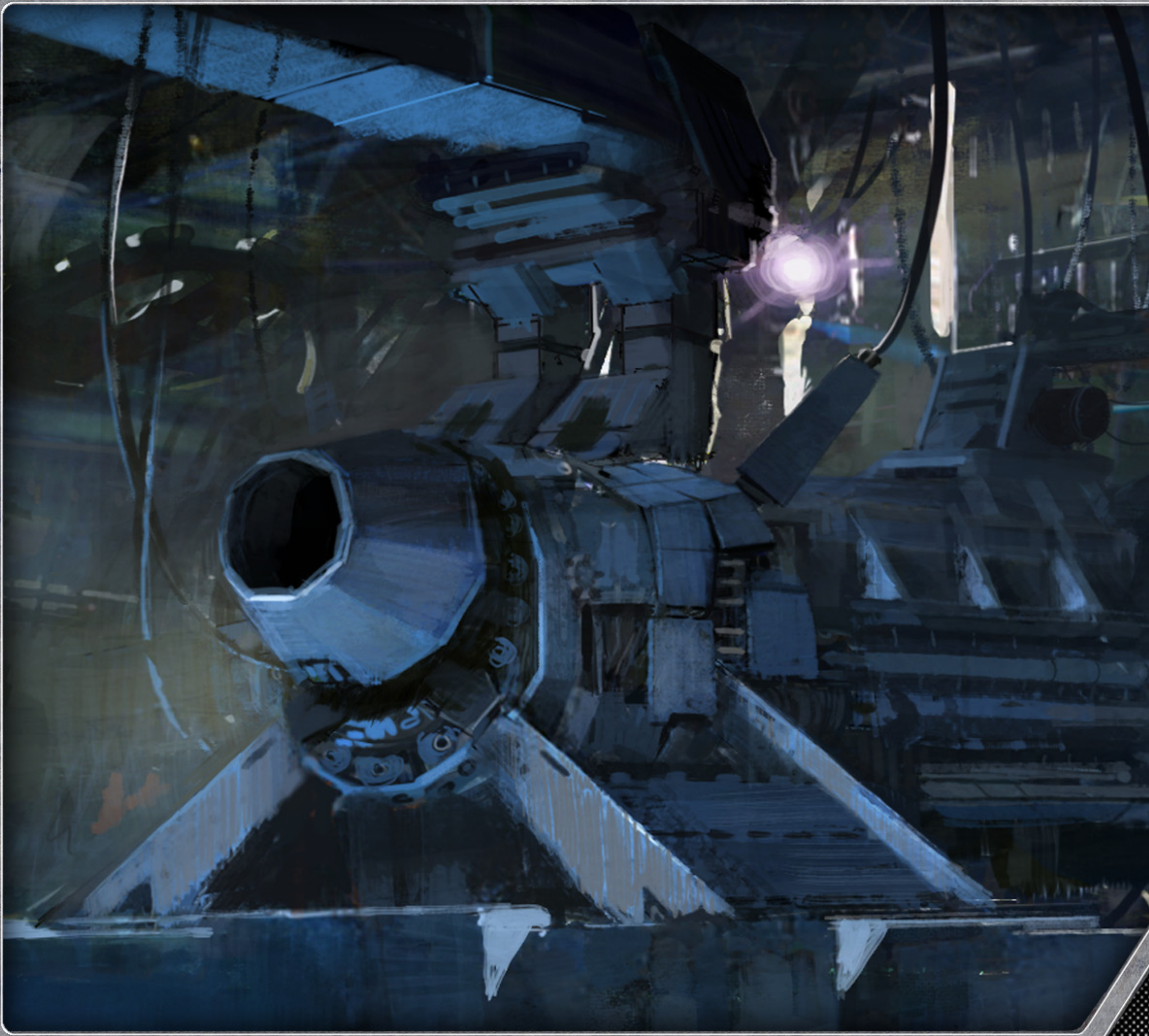
)RU PRUH IURP WKLV DUWLVW YLVLW

KWWS ZZZ SULQJOHDUW FRP

2U FRQWDFW WKHP DW

WKRPDV#SUL@QJOHDUW FR

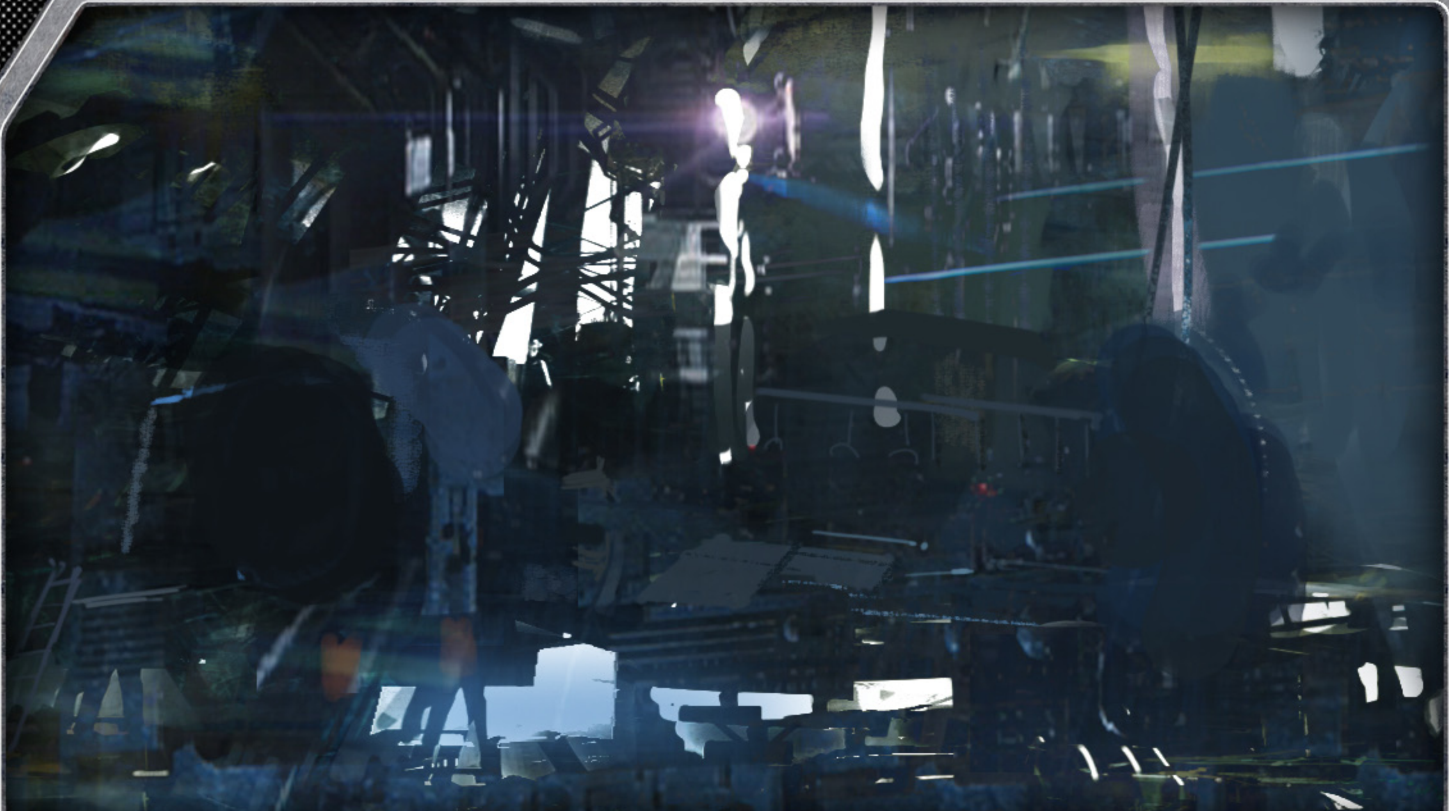

PRINGLE 10

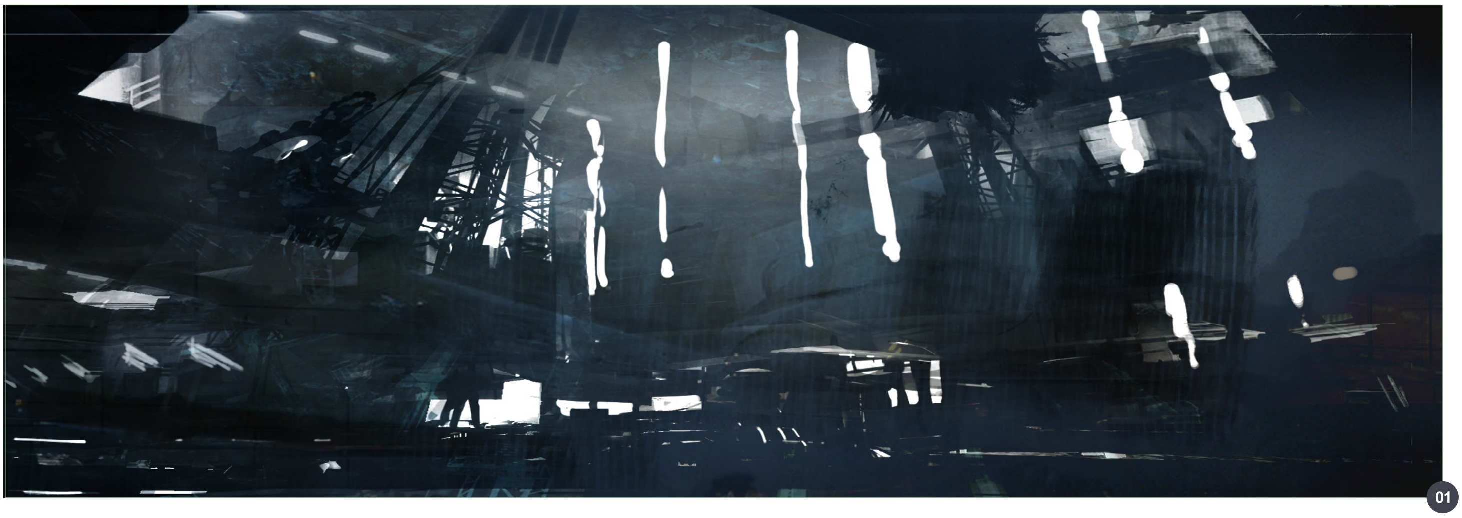


CHAPTER 02

ENVIRONMENTS: PART 2

BY THOMAS PRINGLE

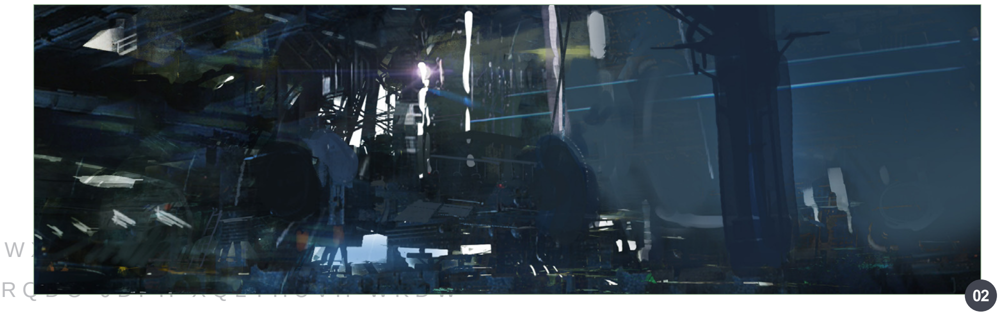




01

Concept Art for Games: Environments - Part 2

Software Used: 3KRWRVKRS



02

Prison planet

7KH DVVLJQPHQW IRU WKLV W
HQYLURQPHQWV IRU D ¿FWLRQ
WDNHV SODFH RQ D SULVRQ SODQHW
, VKRZHG KRZ WR FUHDWH DQ HVWDEOLVKLQJ VKRW RI
WKH HQWUDQFH WR WKH SULVRQ
SDUW , ZLOO ÀHVK RXW D FRQ
FDPSV WKDW DUH GHHS GRZQ LQ WKH SODQHW 7KHUH
WKH\ DUH VKLHOGHG IURP WKH KRVWLOH HQYLURQPHQW
RQ WKH VXUIDFH

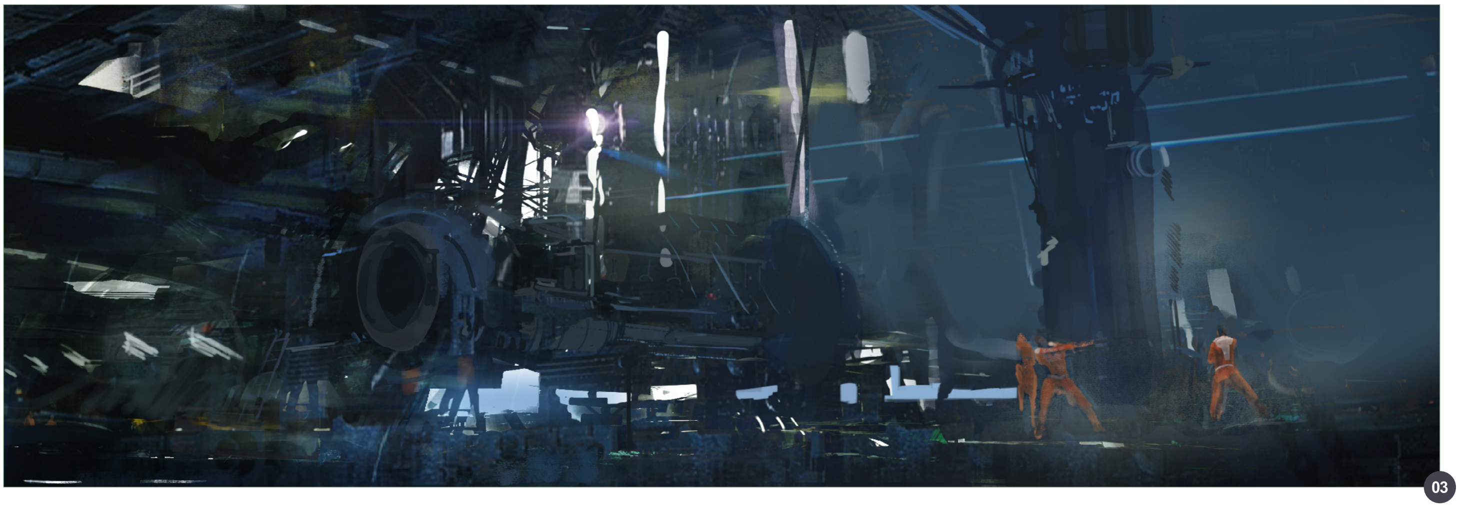
7KH PDLQ HPSKDVLV LQ WKLV
ZLOO EH WR IRFXV RQ FUHDWL
WKDW FDQ EH XVHG WR ÀHVK R
DQG IHHO RI D OHYHO LQ WKH
HVWDEOLVKLQJ P\ OHQV DQG

[illegible]

VHOHFWLRQ RI FRORU DQG GH¿Q
1RZ LW¶V WLPH WR VHOHFW WKH

2QFH , IHHO , KDYH VRPHWKLQJ
PRYH RQ WR DGGLQJ WKH ELJJ

[illegible]



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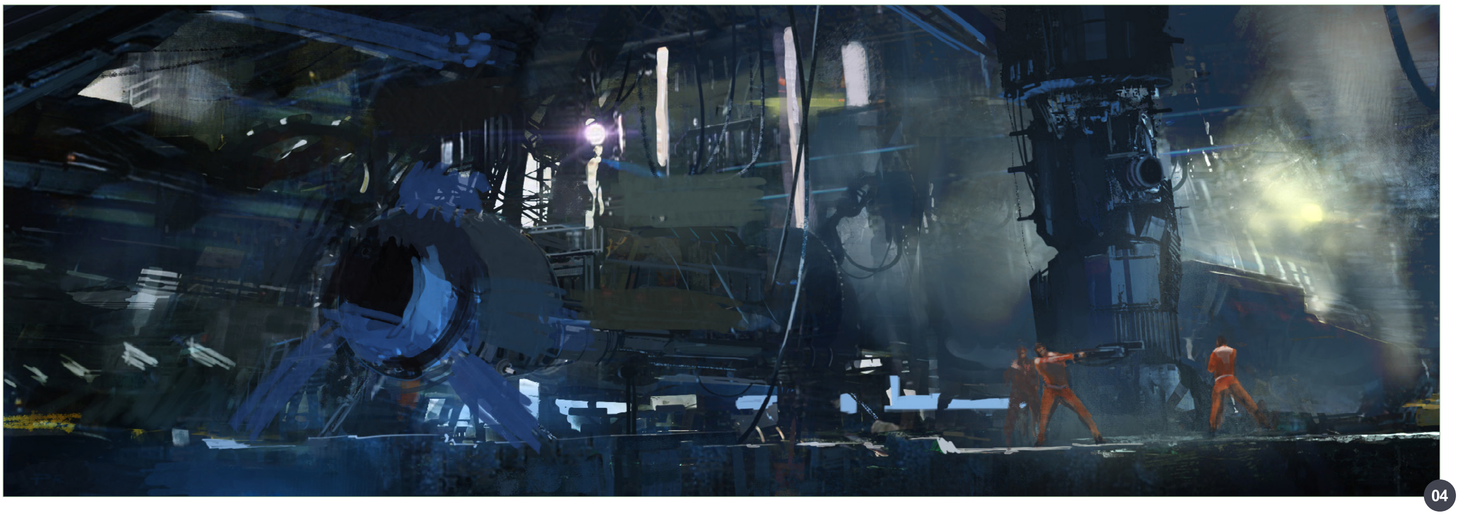
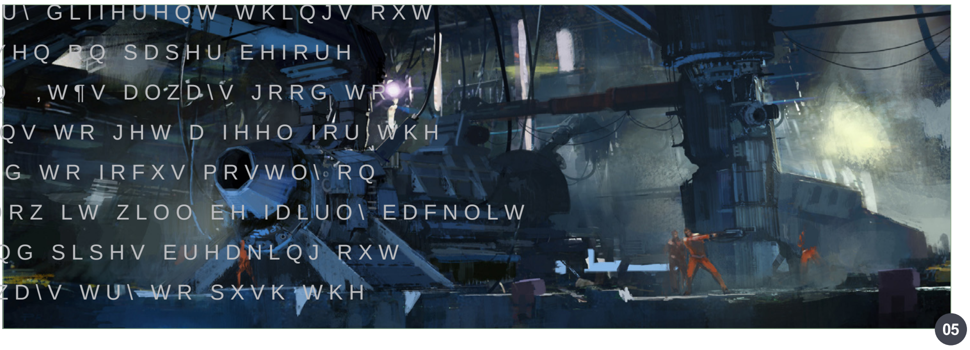
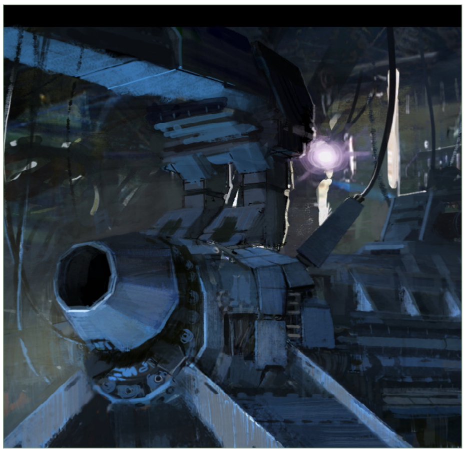


04

:KHQ GHVLJQLQJ , OLNH WR WU\ GLIIHUHQW WKLQJV RXW RQ D VHSDUDWH OD\HU RU HYHQ RQ SDSHU EHIRUH VHWWOLQJ RQ D ¿QDO GHVLJQ ,W¶V DOZD\V JRRG WR GR ORWV RI TXLFN YDULDWLRQV WR JHW D IHHO IRU WKH REMHFW ,Q WKLV FDVH , WHQG WR IRFXV PRVWO\ RQ WKH VLOKRXHWWH VLQFH , NQRZ LW ZLOO EH IDLUO\ EDFNOLW DQG KDYH D ORW RI GXFWV DQG SLSHV EUHDNLQJ RXW IURP WKH FRUH VKDSHV , DOZD\V WU\ WR SXVK WKH



05



FRQWUDVW DQG LQ WKLV FDVH , GHFLGHG WR DG D URXQG DLU GXFW DW WKH IURQW WR DFW DV D IRFDO SRLQW HOVH RWKHUZLVH TXLWH EORFN\ GHVLJQ)LJ)LJ

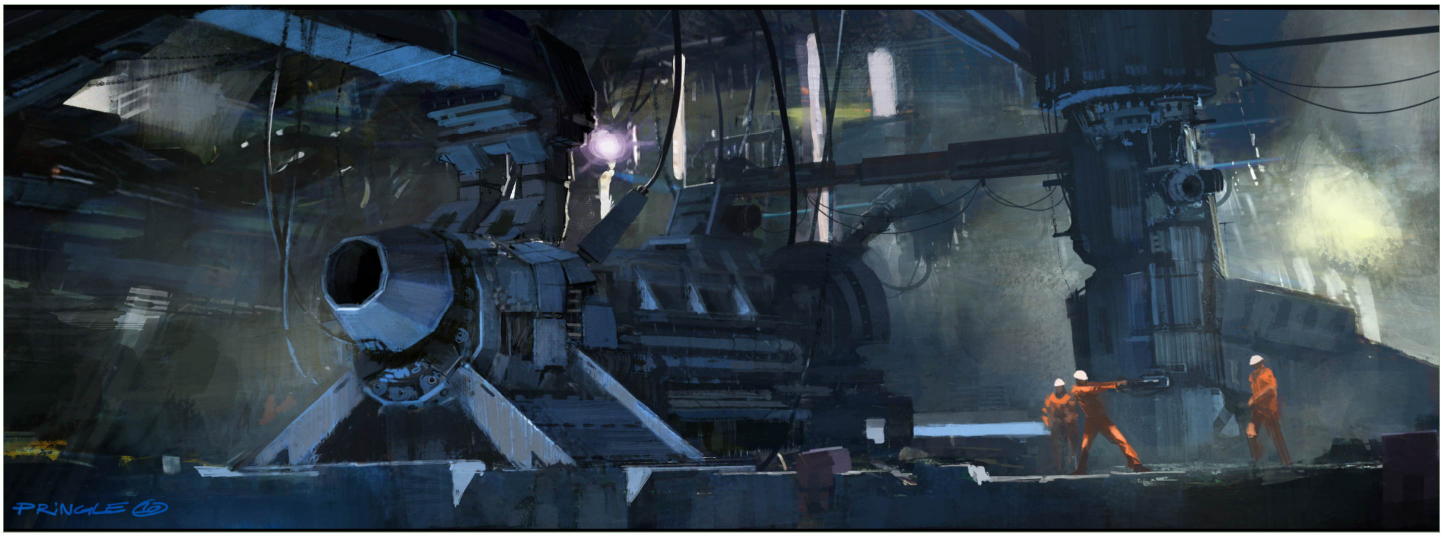
$W WKLV VWDJH LQ WKH SDLQWLQJ WKH PHVKHV DUH PRVWO\ ¿QH WXQLQJ OHIW DV HYHU\WKLQJ LV EDVLFDOO\ HVWDEOLVKHG 7KH RQO\ ELJ FKDQJH , PDGH ZKLOH SDLQWLQJ LV WKH RYHUKDQJLQJ SLSHV DQG ZLUHV DW D OLNH WKH ZLUHV DV WKH\ JLYH D QLFH FRQWUDVW WR WKH KRUL]RQWDOO\ DQG YHUWLFDOO\ GRPLQDWHG GHVLJQ RI

Thomas Pringle

)RU PRUH IURP WKLV DUWLVW

KWWS ZZZ SULQJOHDUW FRP

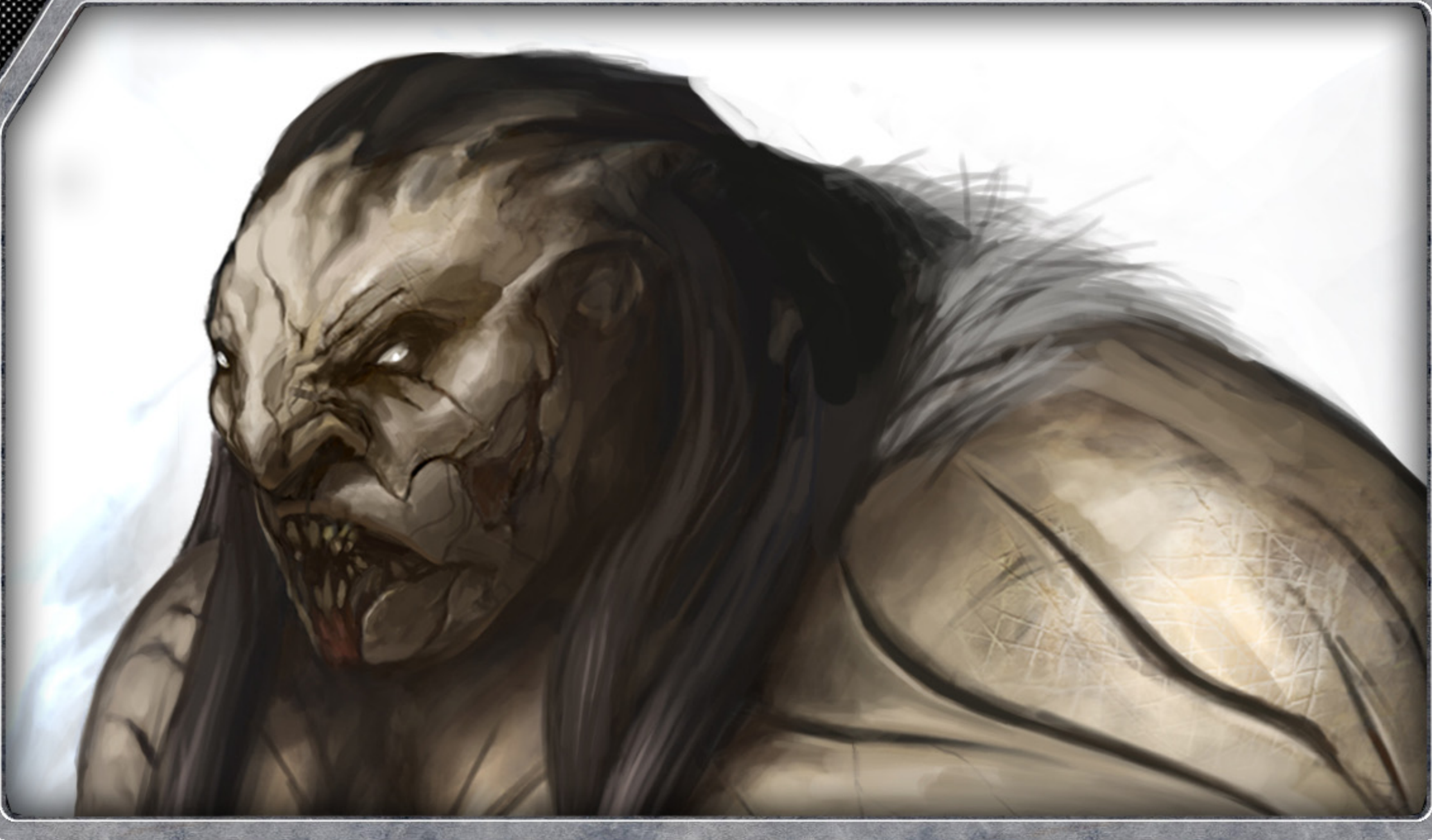
(PDLO WKRPDV#SULQJOHDUW FR



CHAPTER 03

CHARACTERS: PART 1

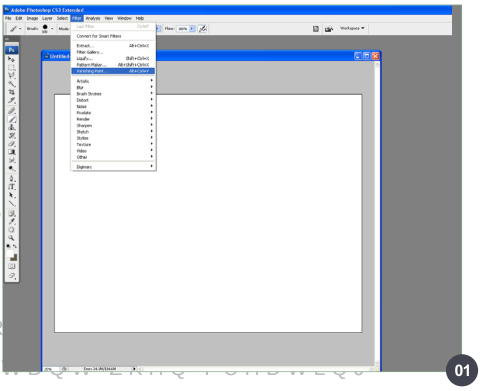
BY BART TIONGSON

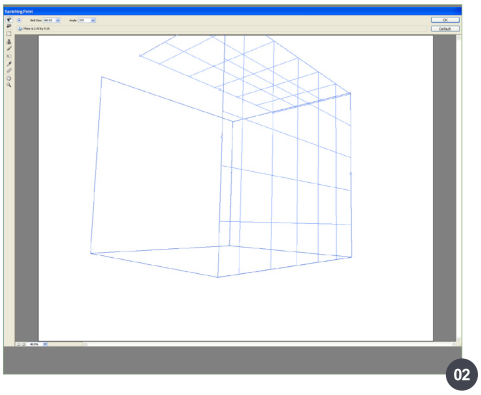


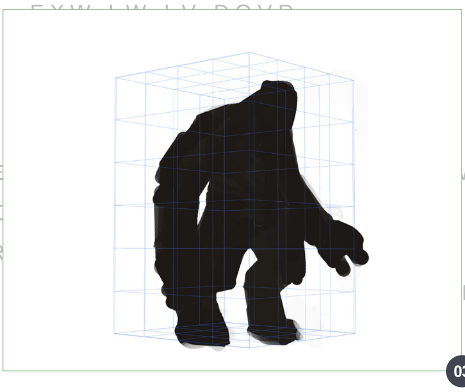
Concept Art for Games: Characters - Part 1

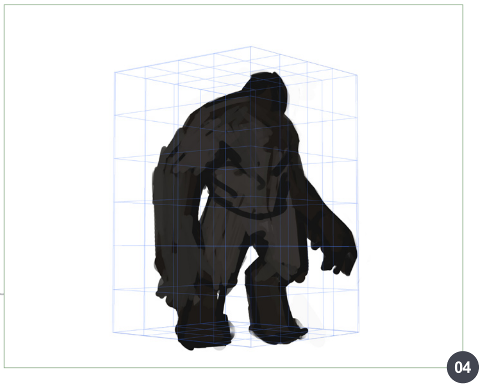
Software Used: 3KRWRVKRS

:KHQ , FUHDWH FKDUDFWHUV ,
E\ FUHDWLQJ D SHUVSHFWLYH
Fig.01 7R GR WKLV , XVH WKH
LQ WKH)LOWHU WDE $ ORW R
SHUVSHFWLYH LV RQO\ LPSRUWDQW ZKHQ FUHDWLQJ
YHKLFOHV RU HQYLURQPHQWV EXW LW LV DOVR
VRPHWKLQJ WKDW VKRXOG EH
FUHDWLQJ FKDUDFWHUV $ OR
ÀDW RU XQFOHDU DQDWRPLFD
FDQ FRQWULEXWH WR WKLV E VH
RYHUORRNHG LV WKH ³EURNHQ
DIIHFW WKH DQDWRP\ WKH FR
RYHUDOO SURSRUWLRQV DQG HU
Fig.02

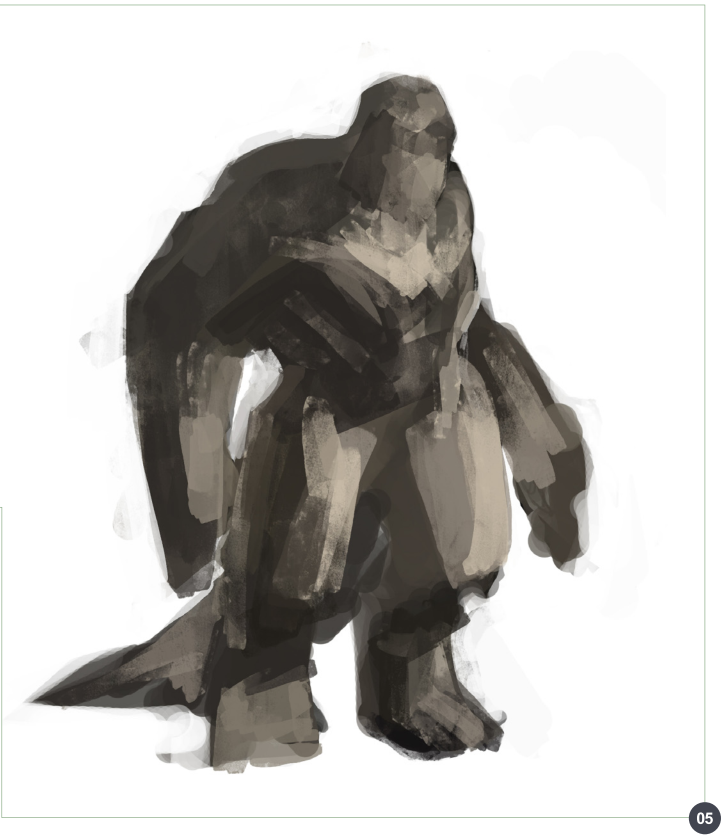


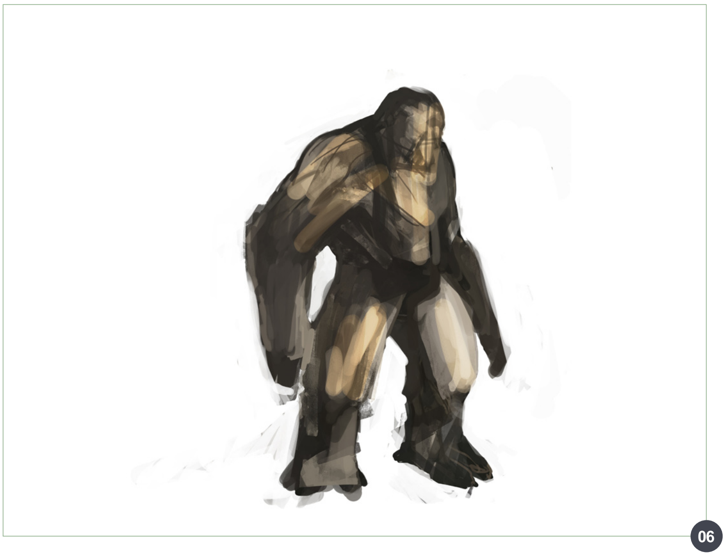






0RVW DUWLVWV ZLOO FUHDWH
JHWWLQJ VWDUWHG RQ D FKDU
SURFHVV LV QR Fig.03 GLII 6RPHWLPH
GR VNHWFKHV LQ P\ VNHWFKE
LW¶V XVXDOO\ PRUH HI¿FLHQW
3KRWRVKRS HYHQ IRU WKH UR
\RX FDQ VHH WKDW , KDYH FU
ORRVH WKXPEQDLOV WR URXJ
VKD Fig.04 7KLQN FDUHIXOO\ D
SHUVRQDOLW\ DQG UROH RI W
VXUH WKDW WKH ERG\ W\SH ¿
QRW WU\LQJ WR KDPPHU GRZQ
DVSHFWV DW Fig.05 WKLV 5HPHPEHU





VWUD\ WRR IDU IURP WKH RULJLQDO WKXPEQDLO
FRXUVH :KLOH VRPHWLPHV WKH PRVW FUHDWLYH
RXWVLGH WKH ER[DQG ZDQGHULQJ VOLJKWO\ R
VRPHWLPHV FUHDWH PRUH ZRUN Fig.06 DWHU RQ
LV WKH EHVW WLPH WR OHW WKH ³ZLOG´ LGHDV
EH\RQG WKH EUDLQVWRUPLQJ VWDJHV VWD\ RQ

Chapter 03

$QRWKHU WKLQJ ,¶OO VRPHWL
ZLWK DQLPDOV DQG FUHDWXU
DQ DOLHQ SULVRQHU LV WR J
KHOS FUHDWH D ELW RI ³QRLV
IRU WKH VNLQ Fig.07 $JDLQ WKLQN DE
SHUVRQDOLW\ DQG UROH RI W
RI VNLQ GR \RX ZDQW WKLV ³S
KH VRIW DQG JHQWOH" ,V KH F
IHURFLRXV" :LWK 7DUDQ 'D[,
ELJ SRZHUIXO DQG OXPEHULQ
LPSHQHWUDEOH VNLQ , WKRX
UKLQRFHURV +HUH ,¶YH GRZQ
SLFWXUHV WKDW , IHHO UHSU
,¶P ORRNLQJ IRU , XVHG WKH
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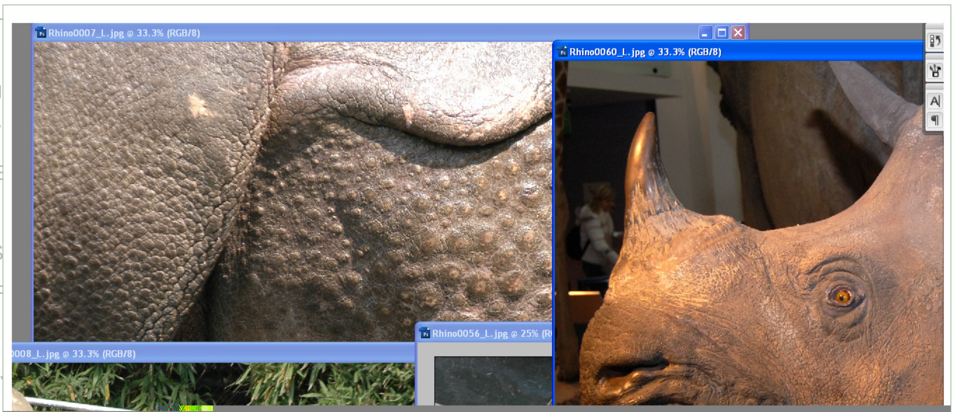
WKHLU OLEUDU\ KDV VRPH DZH
SKRWRV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Rhino0060_L.jpg @ 33.3% (RGB/8)
Rhino0056_L.jpg @ 25% (R
008_L.jpg @ 33.3% (RGB/8)

07

$IWHU ,¶YH GHWDLOHG WKH G
TXLWH D ELW , VWDUW DSSO\LQJ VRPH RI WKH SKRWR
WH[WXUHV XVLQJ WKH GLIIHUH
Fig.08 ,¶P QRW DOZD\V VXUH K
ZLOO DIIHFW WKH LPDJH VR L
WKURXJK WKH OLVW DQG VHH
WKH FRROHVW HIIHFW ,Q WKL
7KH SKRWR EHFRPHV VOLJKWO
LW GRHVQ¶W LQWHUIHUH D JU
ZRUN WKDW ,¶YH DOUHDG\ OD
,¶YH DOVR GHFLGHG RQ D URX
ZDQW WR XVH IRU WKH FKDUD
WKH FRORUV IDLUO\ FORVH LQ
FRPSOLPHQWDU\ RU WZR)RU
WKH FKDUDFWHU WR EH UHG ,
RWKHU FRORUV WKDW DUH LQ
EOHQG RYHU VOLJKWO\ LQWR

08

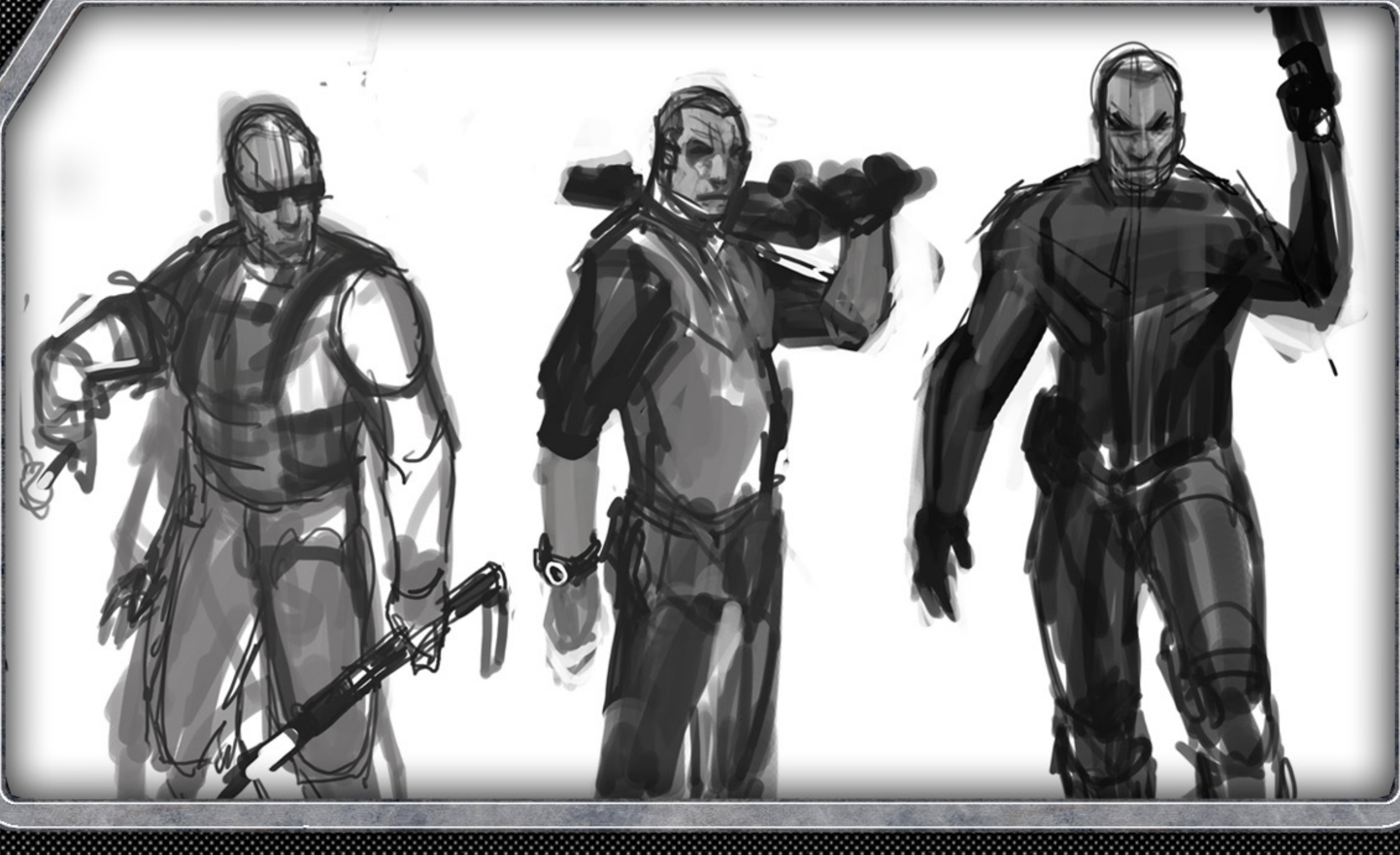
09

FRPSOLPHQWDU\ FRORU LQ WKHDQG XQGHU WKHP DQG ,¶OO DGG D WLW
D VXEWOH VSODVK RI EOXH RU<RX FDQ DOZD\V FUHDWH WKH
GHWDLOHG FRQFHSW 6RPHWLPH
+HUH LV D FORVHU VKRW RI VNLQ RQ WKH EHOO\ DQG SXW \R
WH[WXUHFig.09RUNV VWLOO SUHGHWDLO RQ EXW OHDYH RWKHU DU
\RX FDQ JHW WKH JHQHUDO YLEH RI LW WKH EHVW \RX FDQ
FKDUDFWHU 2QH WKLQJ WR DOZD\V UHPHPEHU LI \RX¶UH JRLQJ IR
GR \RXU UHVHDUFK NQRZ WKH VWUXFWXUH DQG FKDUDFWHU GHWDLOHG

CHAPTER 04

CHARACTERS: PART 2

BY BART TIONGSON



Concept Art for Games: Characters–Part 2

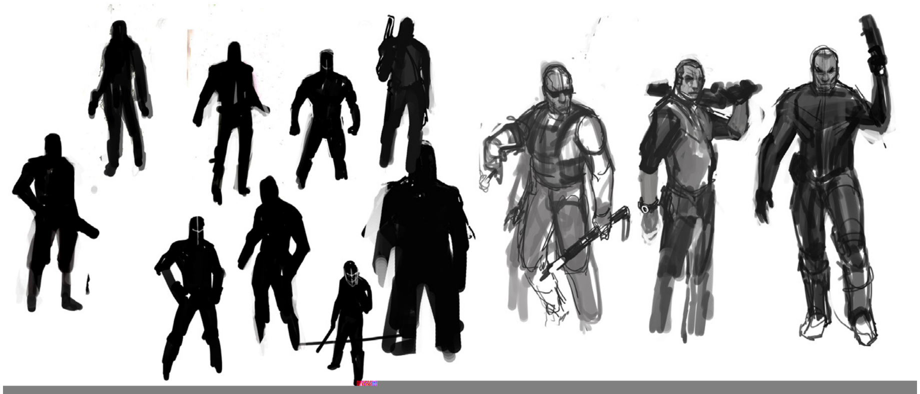
Software used: 3KRWRVKRS

7KHUH DUH YDULRXV ZD\V WKD
,W DOO GHSHQGV RQ WKH VXE
VSHFL¿FV RI WKH FKDUDFWHU
WKDW ,¶P LQ DW D FHUWDLQ W
XVLQJ PDUNHUV RU JUDSKLWH
GLJLWDOO\ ZLWK 3KRWRVKRS
FRQVWDQW , DOZD\V GR URXJ
VWDUW RII ,W¶V LPSRUWDQW
DQG JHVWXUDO LQ WKH LQLWL
GLIIHUHQW ZD\V WR Fig.01 DWH V

6RPHWLPHV ,¶OO MXVW ³LQN R
ZKLOH RWKHU WLPHV ,¶OO XVH
³XQGHU OD\HU´ DQG LQN RXW
DQRWKHU RFFDVLRQ , PLJKW V
MXVW URXJKO\ ¿OO LQ WKH DU
, IHHO WKDW ,¶YH QDLOHG D G

,Q WKLV LPDJH ,¶YH QDUURZH
WKXPEQDLOV WKDW , IHHO DU
EXW DOVR VXLW WKH SHUVRQD
Fig.02 , ZDQW WR NHHS HDFK F
DV GLIIHUHQW IURP HDFK RWK
ZD\ LW PDNHV LW HDVLHU IRU
VSHFL¿F GHVLJQ WR JR ZLWK

, HQG XS XVLQJ HOHPHQWV IU
FRPH XS ZLWK WKH ¿QDO FKRLFH Fig.03
GLIIHUHQW WKLQJV DERXW HD
PHUJHV WKHP DOO LQ VRPH ZD
PRUH VSHFL¿FDOO\ DERXW WK
VSHFL¿FV /H[&UDQH /H[XV L
DQG KH KDV DOZD\V KDWHG W
QDPHG KLP DIWHU D FDU +LV
&DGLOODF &UDQH LV D PDQ L
YHU\ VWURQJ ZLOOHG DQG VW
DQG FROG DQG ZKLOH JRRG K
KH KDV DQ H[WHULRU WKDW Z
EHOLHYH RWKHUZLVH .HHSLQ
PLQG LV YHU\ LPSRUWDQW <R
RI WKH SHUVRQDOLW\ RI WKH
WR LPDJLQH KRZ WKH FKDUDF



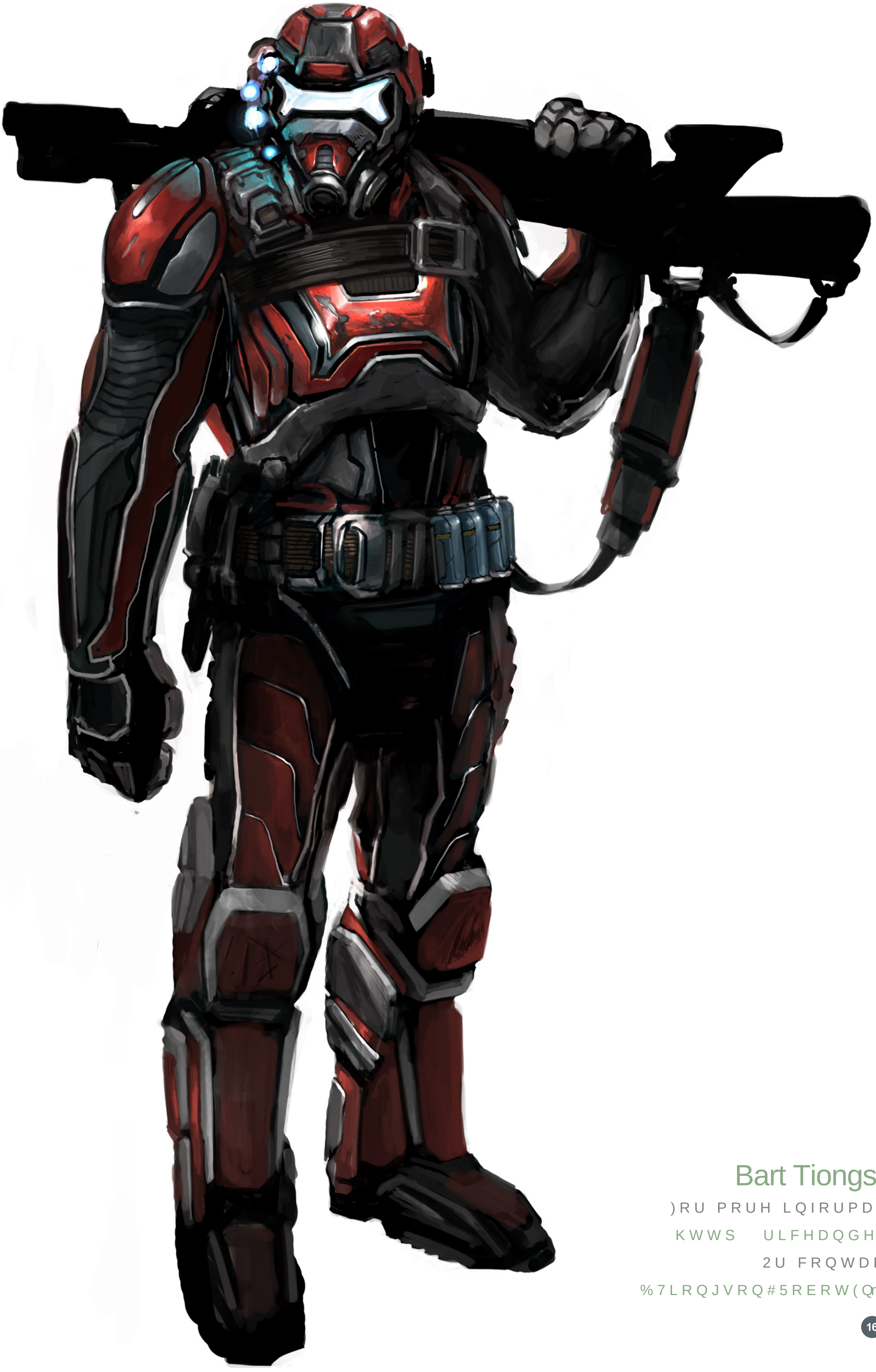
01

02

03

THE PRISON PLANET

LEX CRANE: SHOCK TROOPER



Bart Tiongson

)RU PRUH LQIRUPDWLRQ

KWWS ULFHDQGHJJV E

2U FRQWDFW WK

%7LRQJVRQ#5RERW(QmWHUW

CHAPTER 05

ACCESSORIES: PART 1

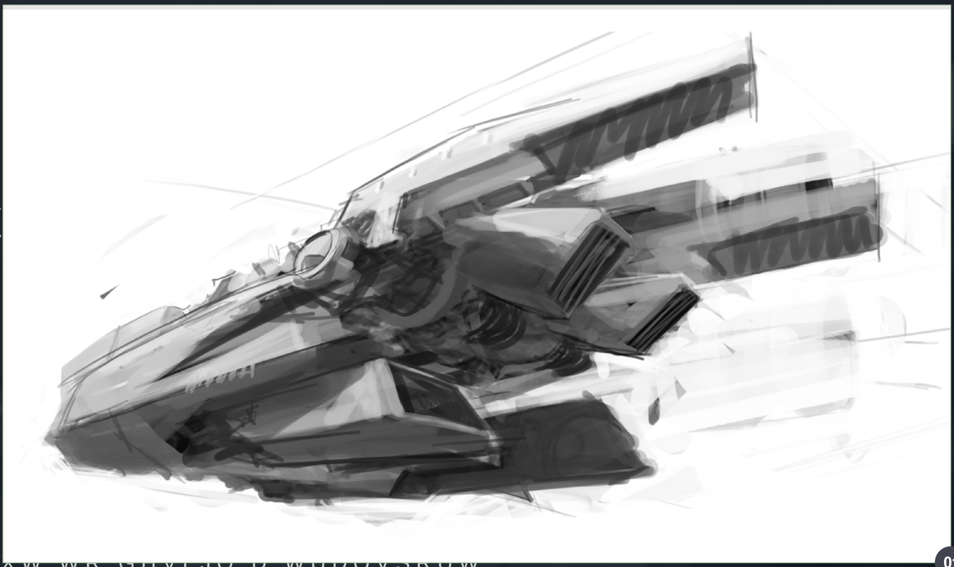
BY CRAIG SELLARS

Concept Art for Games: Accessories - Part 1

Software used: 3KRWRVKRS

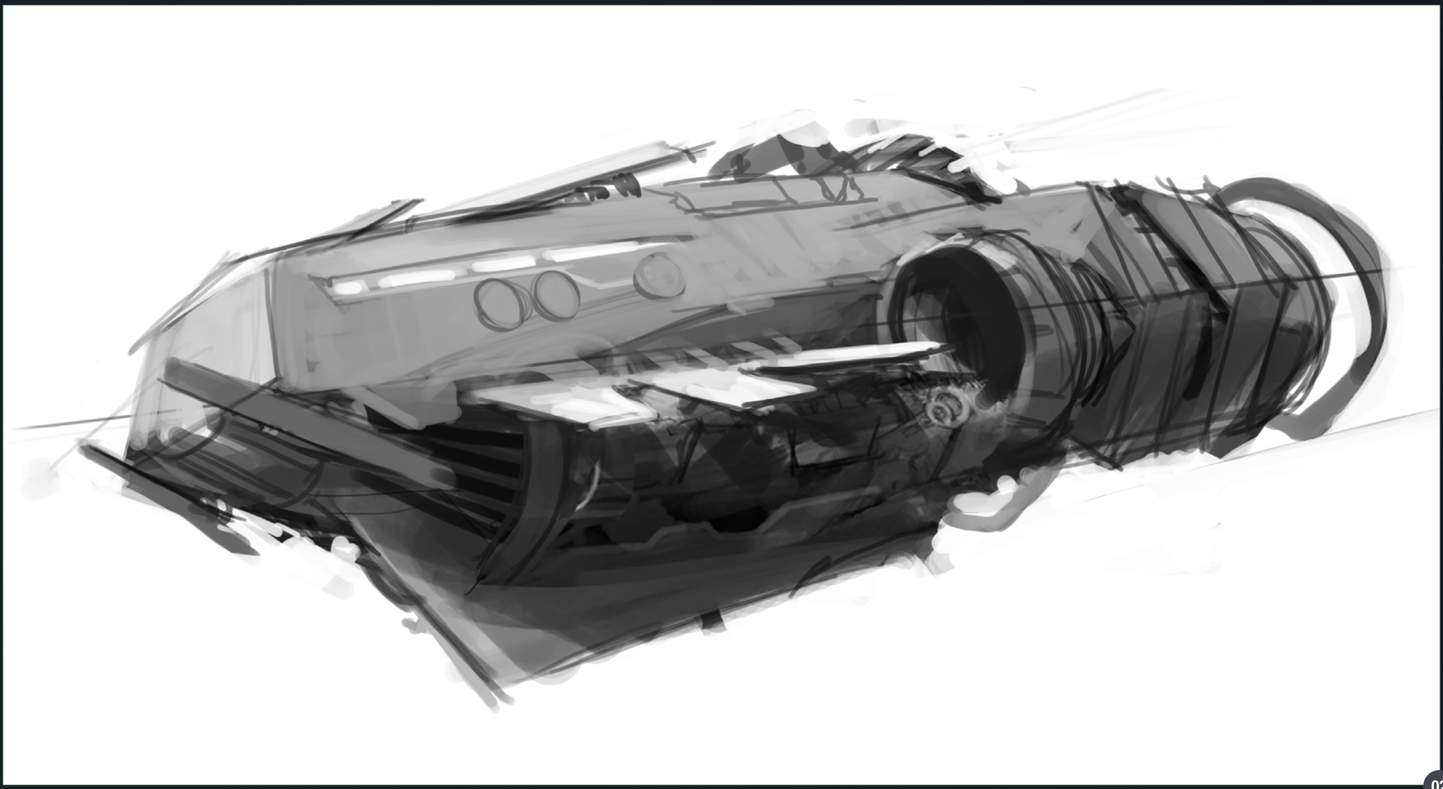
)RU P\ ¿UVW FKDSWHU LQ WKL
GHVLJQ D GURS VKLS RU SULV
SULVRQ SODQHW $VWXULD

:KHQ , VHW RXW WR GHVLJQ D
WKH ¿UVW WKLQJ , FRQVLGHU
UHTXLUHG WR GHVLJQ FDQ KH
DGG WR WKH PRRG

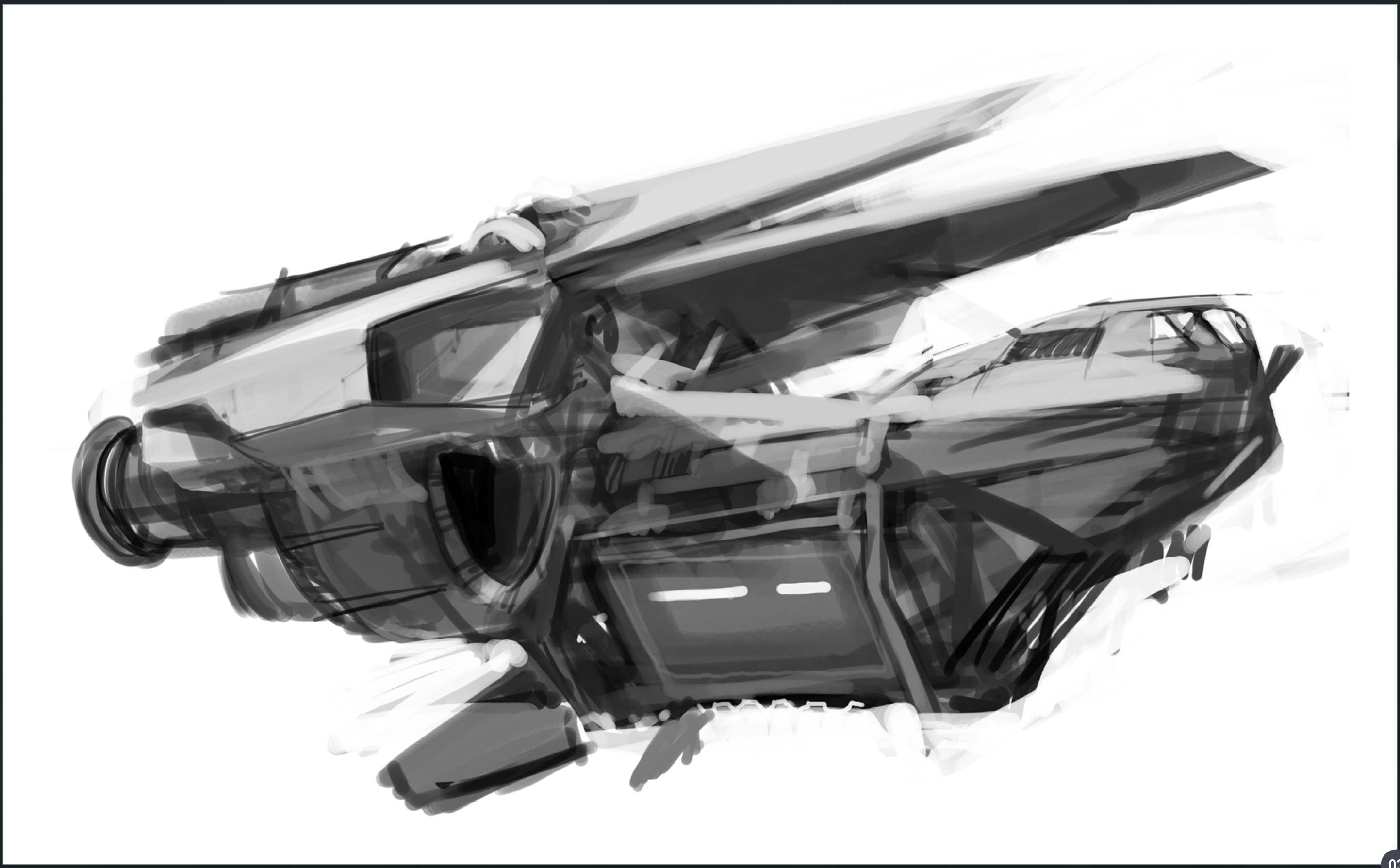


01

,Q WKLV FDVH ,¶P VHWWLQJ RXW WR GHVLJQ D WUDQVSRUW YHKLFOH VROHO\ XVHG WR IHUU [illegible] SULVRQHUV WR DQG IURP WKH [illegible] XVXDOO\ [illegible] VXUIDFH , ZDQW WKH YHKLFOH [illegible] SHQ IRU FOHDQLQJ LW XS EXW D ELW FOXQN\ VRUW RI XWLOL [illegible] IROORZV IXQFWLRQ WKDW LV [illegible] FRQVWUXFWLRQ LV GLFWDWHG [illegible] *Star Trek* [illegible] UHTXLUHPHQWV ZLWK QR WKRXJKW WR PDNLQJ LW [illegible] PDNH WKLV VKXWWOH ORRN PRUH DHVWKHWLFDOO\ SOHDVLQJ [illegible] WR HPSKDVL]H KRZ LQKRVSLWD [illegible] FRQWUDVW DQG FXUYH GHWDLOV DORQJ WK HQYLURQPHQW LV VR , ZDQW [illegible] GRZQ DV LI ÀLQJ LQ $VWXULD [illegible] WDNHQ LWV WROO RQ WKH VKLS [illegible] WXUEXOHQW DWPRVSKHUH [illegible]

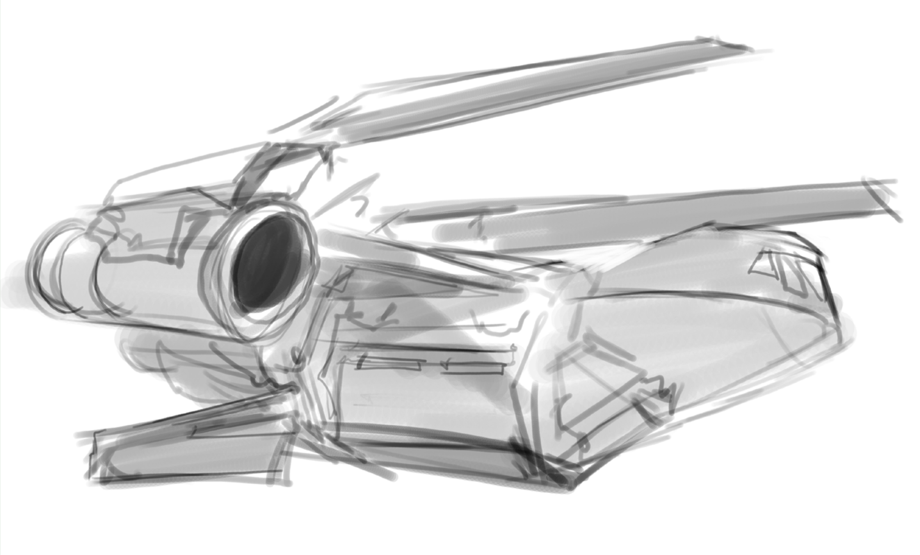


02



03

)RU P\ WKLUG VNHWFK , WU\ [illegible] Q J H U R [illegible] UWDEOH
VKDSH WKDW¶V PRUH OLNH D [illegible] W K H [illegible] \ X Q F R Q Y H Q
ERDW ZLWK D SURPLQHQW FRQ[illegible] V V L E O H [illegible] W R W K H
XS IURQW IRU PD[LPXP YLVLEL[illegible] Q J L Q J [illegible] F W L Q J V K
DWPRVS Fig.03 [illegible] $W WKLV SRLQW [illegible] F D U J R U H À H F W V [illegible] W K H
WKDW WKLV ERDW WKHPH SURY[illegible] À L H V D Q G I D O O V W K
LQFRUSRUDWH PRUH ³VWRU\´ LQWR P\ GHVLJQ DQG , D W P R V S K H U H L P S O D X V L E O H I U R
SODFH WKH FRPSDUWPHQW WK[illegible] V R P H W L P H V
LQ DW WKH ERWWRP RI WKH YH[illegible] , F R [illegible] H O V H ,
D KHDY\ DUUD\ RI HQJLQHV UHWU



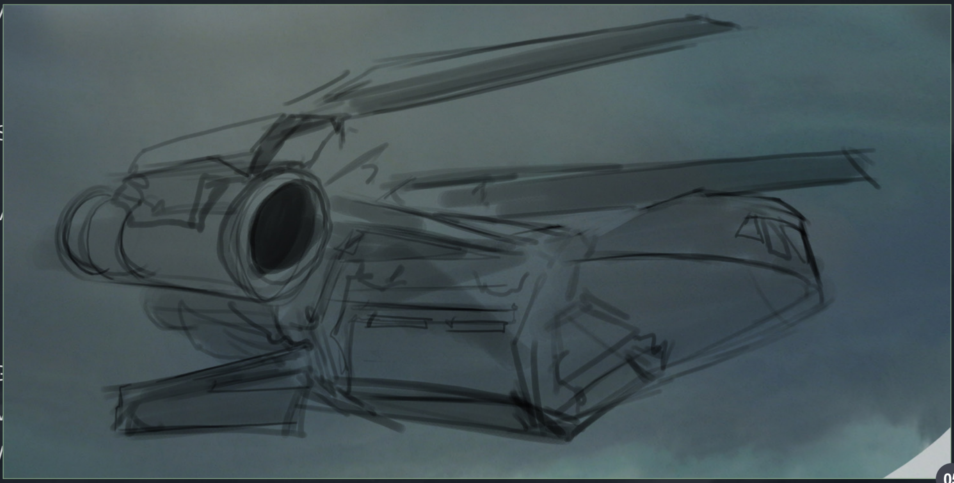
04

$W WKLV SRLQW LW¶V WLPH WR U
VNHW Fig.03 [illegible]VLV WKH GLUHFWLRQ , G
DV LW ¿OOV DOO RI P\ GHVLJQ JF

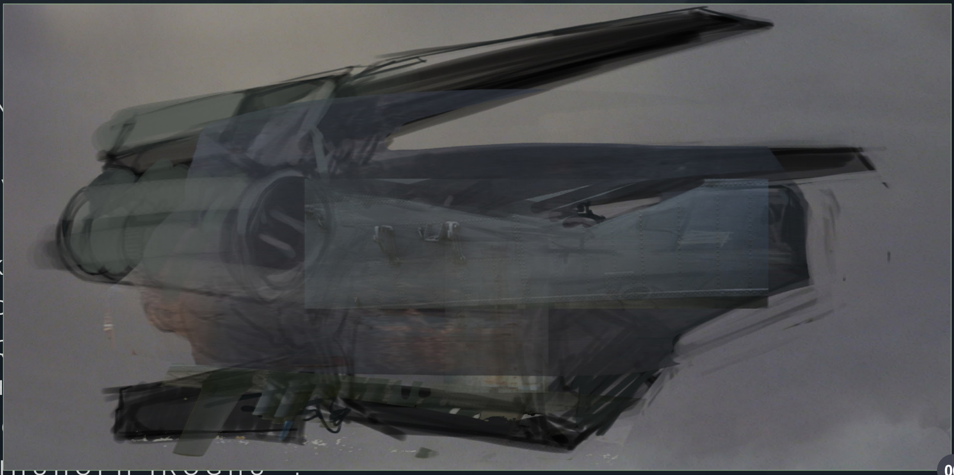
7R VWDUW RXW , VNHWFK P\ GHV
FDQY Fig.04 $W WKLV SRLQW , DP
FKRRVLQJ DQ DQJOH WKDW JLYHV
YLHZ RI WKH YHKLFOH 6RPHWLPH
E\ FUHDWLQJ D VLPSOH ' EORFN
URWDWH DURXQG WR JHW WKH EH

1H[W , SODFH D EDFNJURXQG ZD
WKH VN Fig.05 FK 7KLV LV WR UHSUHV

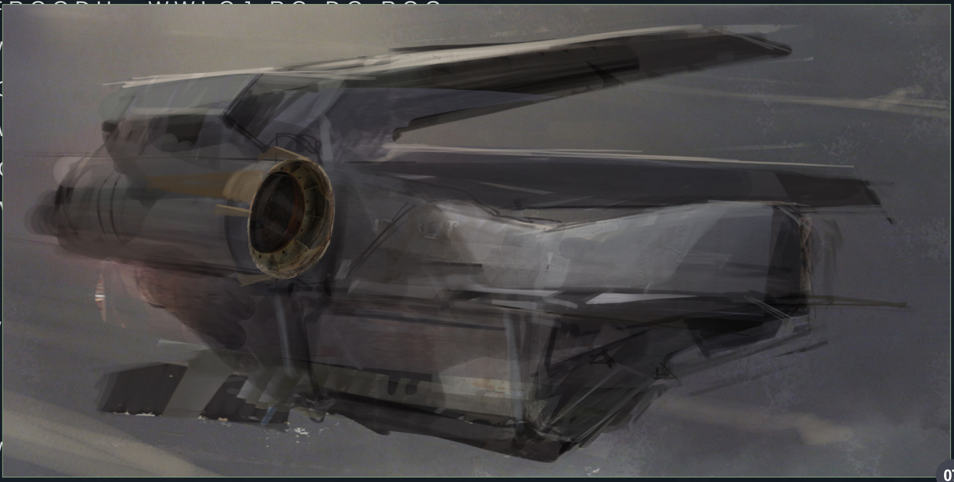
DQG FRORU RI WKH SODQHW¶V
LPSRUWDQWO\ LW LV WKH NH\
DQG WKH EDVH LQWR ZKLFK ,
³ZDVK´ E\ OD\HULQJ LQ D FRXS
VHFWLRQV RI D VN\ SKRWR W
RYHUOD\V RQ WRS DQG DGMXV
VR , KDYH VRPH FRORU YDULH


05

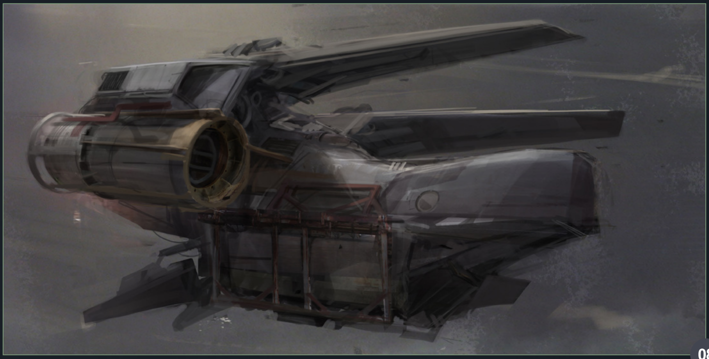
1H[W , VWDUW OD\HULQJ LQ W
RYHUOD\ Fig.06 HU 7KHVH DUH PDG
RI SKRWRV RI PHWDO DQG UXV
SURYLGH PH QRW VR PXFK ZLV
ORFDO FRORU WKDW , FDQ XVH WR VWDUW SDLQWLQJ DQG
GH¿QLQJ WKH YHKLFOH $W W
DQG YDOXH RI WKH VN\ WR PD
RXW PRUH DJDLQVW WKH EDFN


06

(YHQ GXULQJ WKH ¿QDO LOOX
DOZD\V DOWHULQJ WKLQJV DV
EHVW DQG KHUH , DGMXVW WK
Fig.07 $W WKLV SRLQW , DP PD
WKH LPDJH DQG HVWDEOLVKLQ
YHVVHO DOO WR KHOS GH¿QH
, DP DOVR VWDUWLQJ WR WKL
DQG ZKHQ ORRNLQJ LQ P\ UH
¿QG D SKRWR RI D ELJ LURQ F
LQGXVWULDO SLSH , SDVWH L
IURQW RSHQLQJ RQ WKH F\OL
RIWHQ GR WKLV HDUO\ RQ QRV
IRU D VSHFL¿F DUHD EXW , ¿
SXVK IRUZDUG LQ GH¿QLQJ RW
DV SRVVLEOH

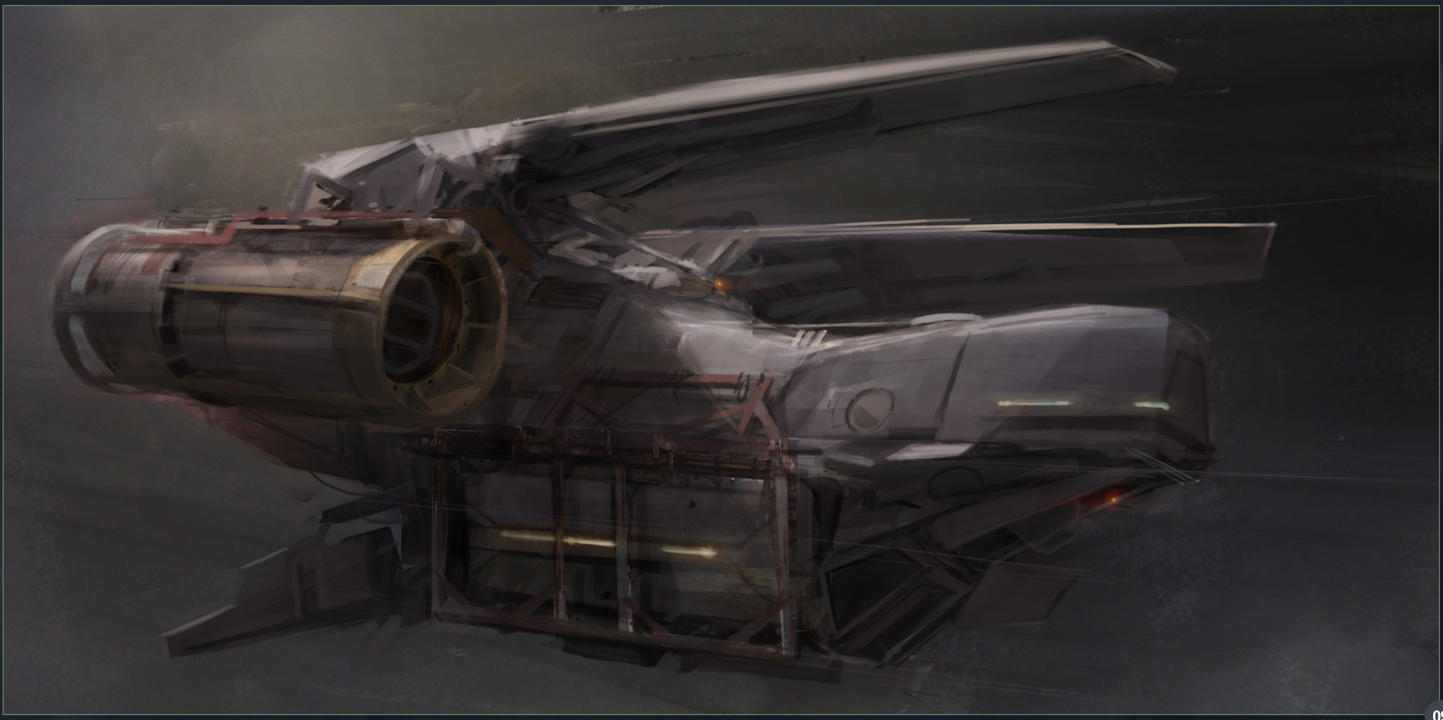

07

, FRQWLQXH WR GUDZ LQWR W
SUHVHUYLQJ DUHDV RI EODQN
FRPSOHPHQW WKH DUHDV ZLW
GHWDLO DQG Fig.08 V\ QHVV´ DV W


08

WR PDNH VXUH , DP NHHSLQJ LQ PLQG WKH SXUS
VWRU\ 6R DW WKLV SRLQW , DGG DQG GH¿QH D
SULVRQHU FRPSDUWPHQW DW WKH ERWWRP RI W
FDJH ZKLFK VXUURXQGV WKH SULVRQHU FRPSDU
WKH GDQJHURXV QDWXUH RI WKH FKDUDFWHUV

$W WKLV SRLQW , DP DGMXVWLQJ WKH YDOXHV
WKH\ DUHQ¶W WRR GDUN DQG WZHD Fig.09 NLQJ WKH F
IRFXV RQ WKH HQJLQH DUHD 7KH WZR GLVWLQF

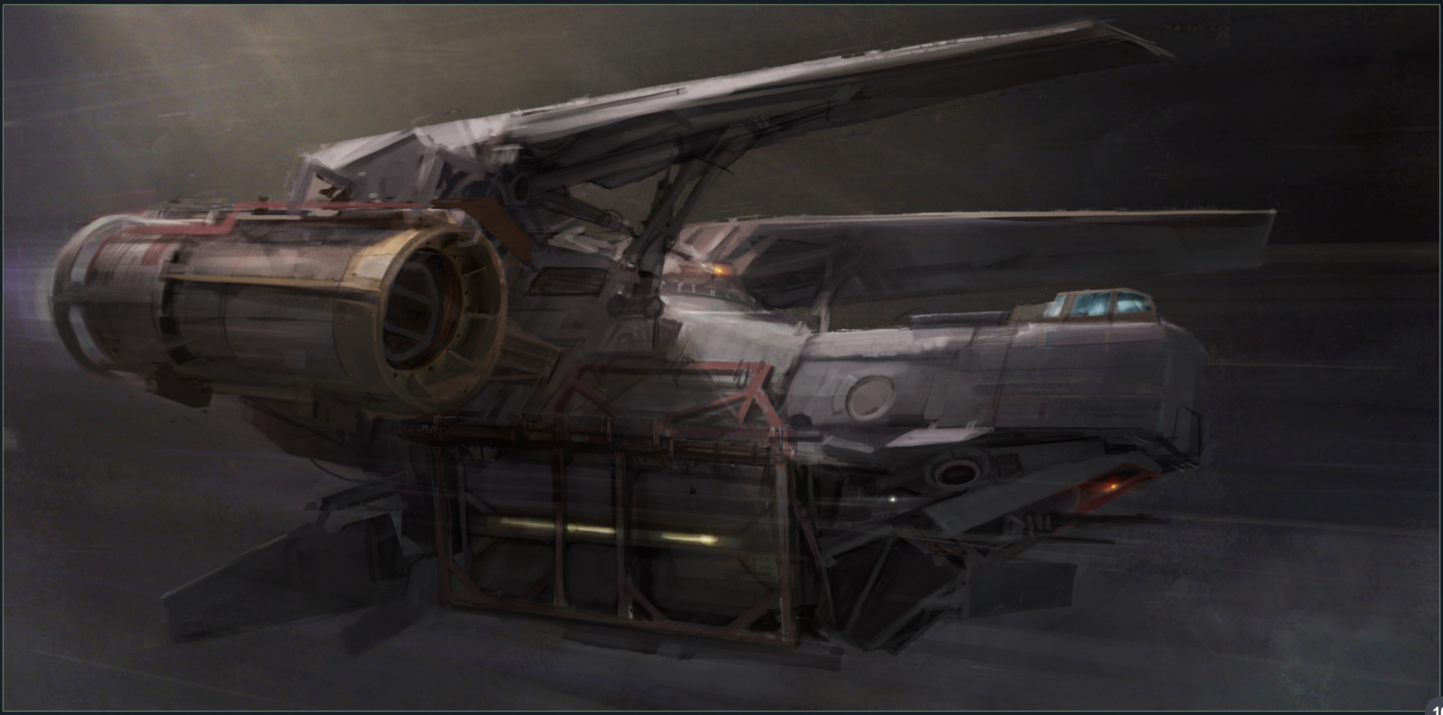


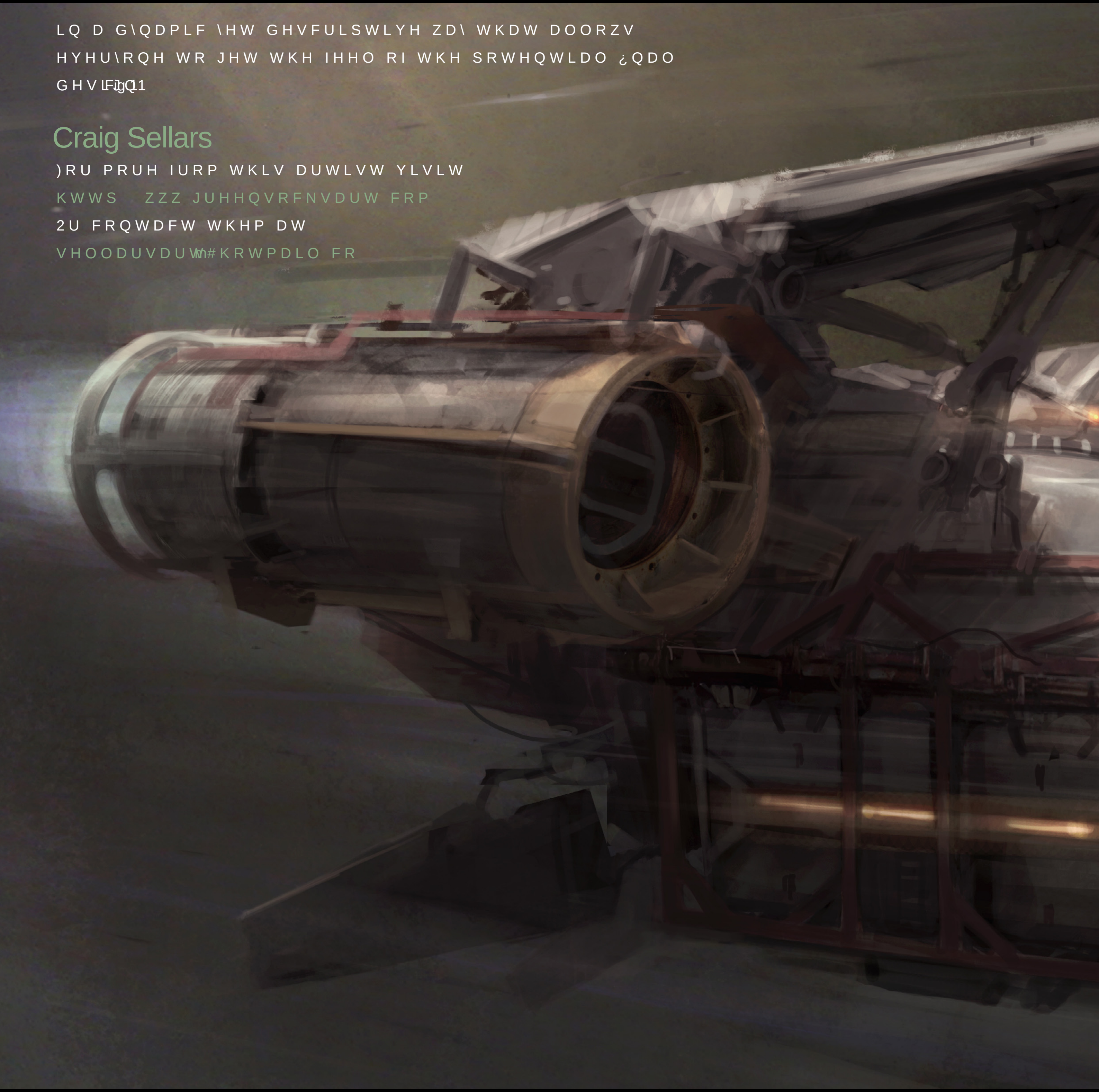
VDQGZLFKHG RQ WRS RI HDFK [illegible]
FOXPV\ VR , SDLQW RXW WKH [illegible]
WKH PHFKDQLFV RI WKH XSSHU [illegible]
QRZ YLVLEOH

[illegible] LQFRUSRUDWH VRPH KHDY\ VW[illegible]
WR WKH PDLQ IXVHODJH DQG V[illegible]

, DOVR IHHO DW WKLV SRLQW WKDW WKH QRVH RI WKH
IXVHODJH LV D OLWWOH WRR RUJDQLF IRU P\ FOXQN\
VSDFHVKLS GHVLJQ VR , VKDYH [illegible]
EH PRUH ER[\ WKHQ DGG D JO[illegible] YHKLFOH DG[illegible]
WKH FRFNSLW WKDW LV PRUH [illegible]

[illegible] 'LUHFW[illegible]
VWDNHKROGHUV RQ WKH SURMHF[illegible]
VLGH WRS DQG ERWWRP HOHYDW[illegible]
[illegible]





LQ D G\QDPLF \HW GHVFULSWLYH ZD\ WKDW DOORZV HYHU\RQH WR JHW WKH IHHO RI WKH SRWHQWLDO ¿QDO GHVLJQ1

Fig.1

Craig Sellars

)RU PRUH IURP WKLV DUWLVW YLVLW
KWWS ZZZ JUHHQVRFNVDUW FRP
2U FRQWDFW WKHP DW
VHOODUVDUWm#KRWPDLO FR

C.SELLARS

KXH RI WKH VN\ DQG HQYLURQ
SDLQW LQWR WKH JURXQG FU
VKDSHV WR ERWK DGG LQWHU
SHUVSHFWLYH %HKLQG WKH V
LPSO\ WKH URFN\ VXUIDFH RI
¿QG WKDW ZKHQ GHVLJQLQJ D
HYHQ D FKDUDFWHU SRUWUD\
VLPXODWHG ORFDWLRQ LV YH
SHRSOH YLVXDOL]H KRZ WKH ¿
ZKHQ HYHU\WKLQJ LV SXW WR

$W WKLV SRLQW , WXUQ P\ DW
YHKLFOH DQG VWDUW WR HVW
VXUIDFH :KLOH , ZDQW WR LOOXVWUDWH WKH
YHKLFOH DV D ZKROH , DOVR [illegible]
RI LQWHUHVW LQ WKH LOOXVWUDWLRQ [illegible]
HQG RI WKH YHKLFOH FDWFKLQJ [illegible]
ZKLOH , OHW WKH OHW WKH UHDU [illegible]
VKDGRZ ZKHUH PRVW RI LWV [illegible]
IURP UHÀHFWHG OLJKW WR EH [illegible]
GHWDLOV DUH UH¿QHG DW WKLV [illegible]
IHDWXUHV DQG WKH HTXLSPHQW [illegible]
RI WKH YHKLFOH

, FRQWLQXH WR WZHDN WKH [illegible]
DGGLQJ VRPH ZDUPWK WR WKH [illegible]

[illegible] DW PRUH ZRUNLQJ WKH ZKHHOV DQG [illegible]
[illegible] ZKHUH WKH PDMRULW\ RI WKH [illegible]
[illegible] DQG , D[illegible]
[illegible] UHDU RI WKH YHKLFOH [illegible] SULPDULO\ WKDW
[illegible] D OLWWOH [illegible]
[illegible] WKHUV UHPD[illegible]
[illegible] VRPH [illegible] QWLQ WKH
[illegible] WRS

, PRYH WR WKH ZKHHOV DGGLQJ

$OO WKDW FRXQWV LV WKH IDFW [illegible] GH¿QH WKHP
[illegible] 0RUH [illegible] KDWFK Q[illegible]
[illegible] DOO OLJK[illegible]
ZHDWKHULQJ DUHD WKHQ DGG GHWDLOV VXFK

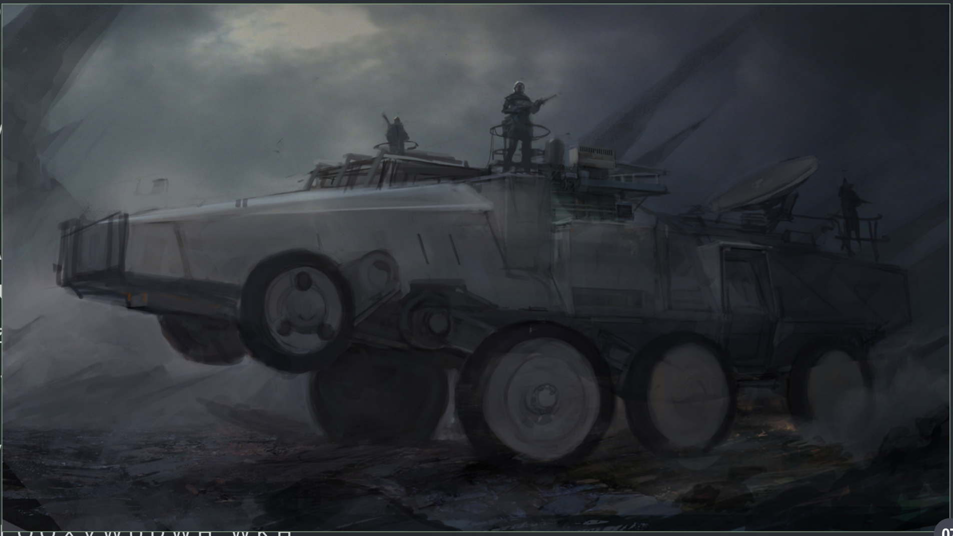
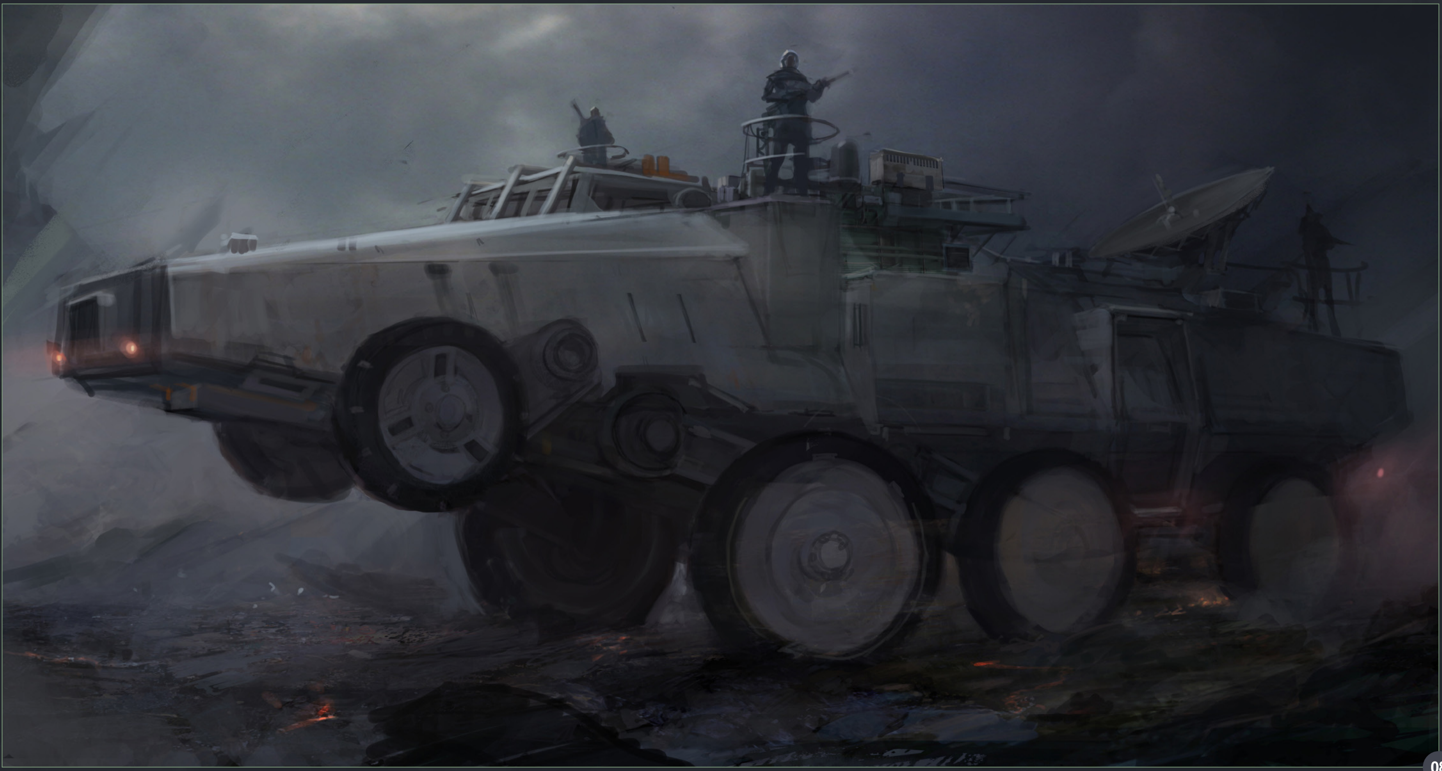
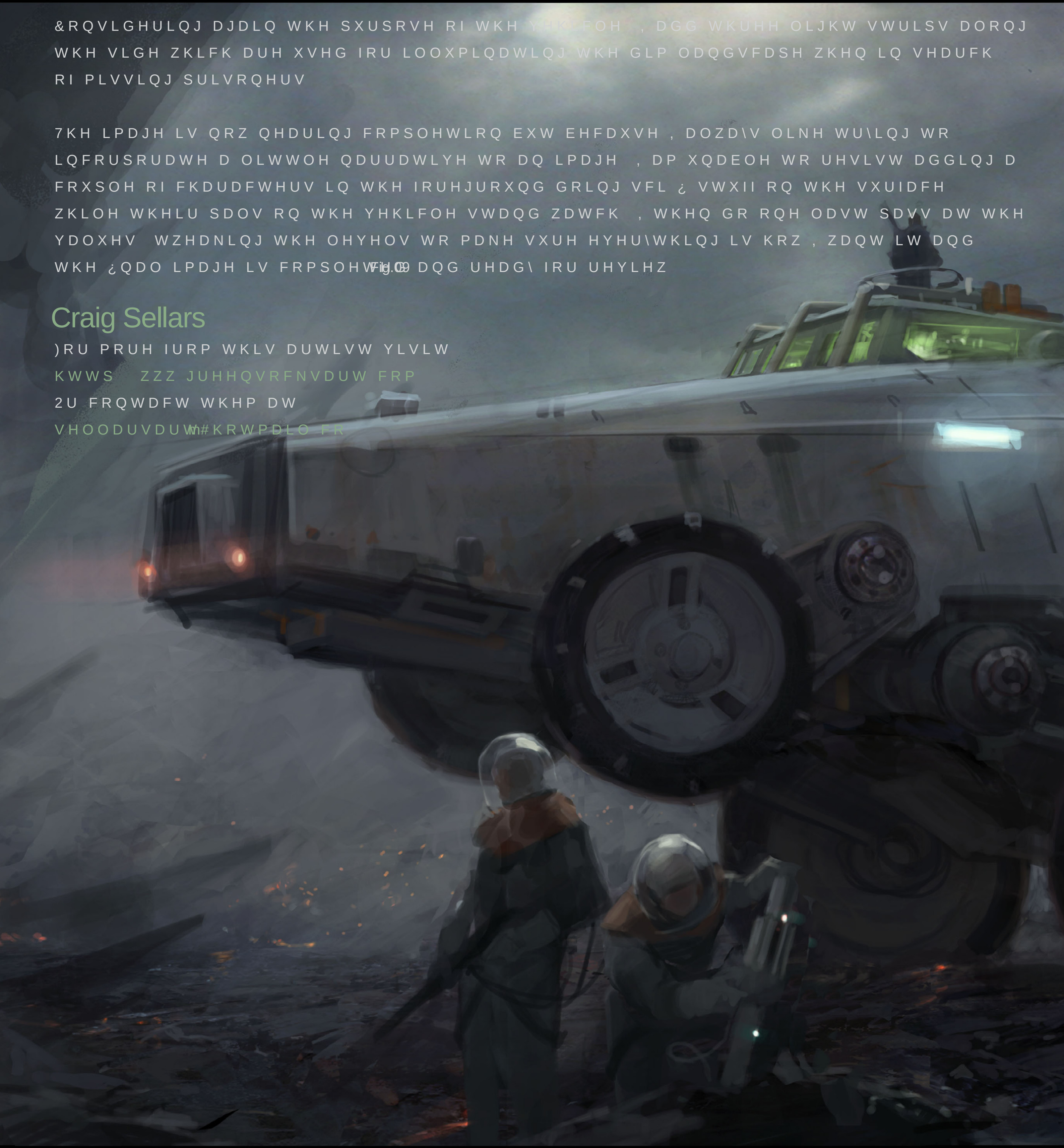


Fig.07

Fig.08





&RQVLGHULQJ DJDLQ WKH SXUSRVH RI WKH YHKLFOH , DGG WKUHH OLJKW VWULSV DORQJ WKH VLGH ZKLFK DUH XVHG IRU LOOXPLQDWLQJ WKH GLP ODQGVFDSH ZKHQ LQ VHDUFK RI PLVVLQJ SULVRQHUV

7KH LPDJH LV QRZ QHDULQJ FRPSOHWLRQ EXW EHFDXVH , DOZD\V OLNH WU\LQJ WR LQFRUSRUDWH D OLWWOH QDUUDWLYH WR DQ LPDJH , DP XQDEOH WR UHVLVW DGGLQJ D FRXSOH RI FKDUDFWHUV LQ WKH IRUHJURXQG GRLQJ VFL ¿ VWXII RQ WKH VXUIDFH ZKLOH WKHLU SDOV RQ WKH YHKLFOH VWDQG ZDWFK , WKHQ GR RQH ODVW SDVV DW WKH YDOXHV WZHDNLQJ WKH OHYHOV WR PDNH VXUH HYHU\WKLQJ LV KRZ , ZDQW LW DQG WKH ¿QDO LPDJH LV FRPSOHWH DQG UHDG\ IRU UHYLHZ

Fig.09

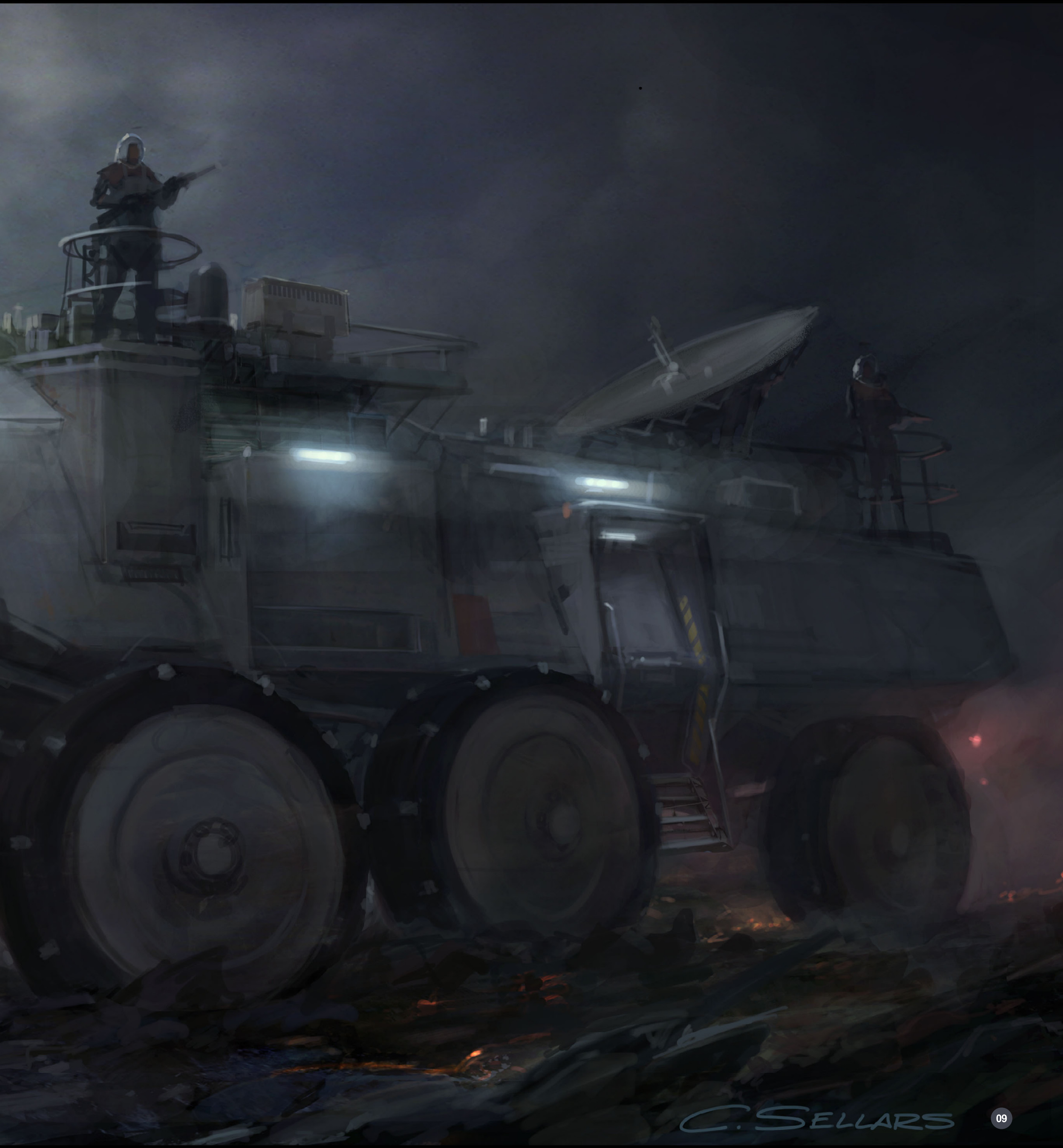
Craig Sellars

)RU PRUH IURP WKLV DUWLVW YLVLW

KWWS ZZZ JUHHQVRFNVDUW FRP

2U FRQWDFW WKHP DW

VHOODUVDUWm#KRWPDLO FR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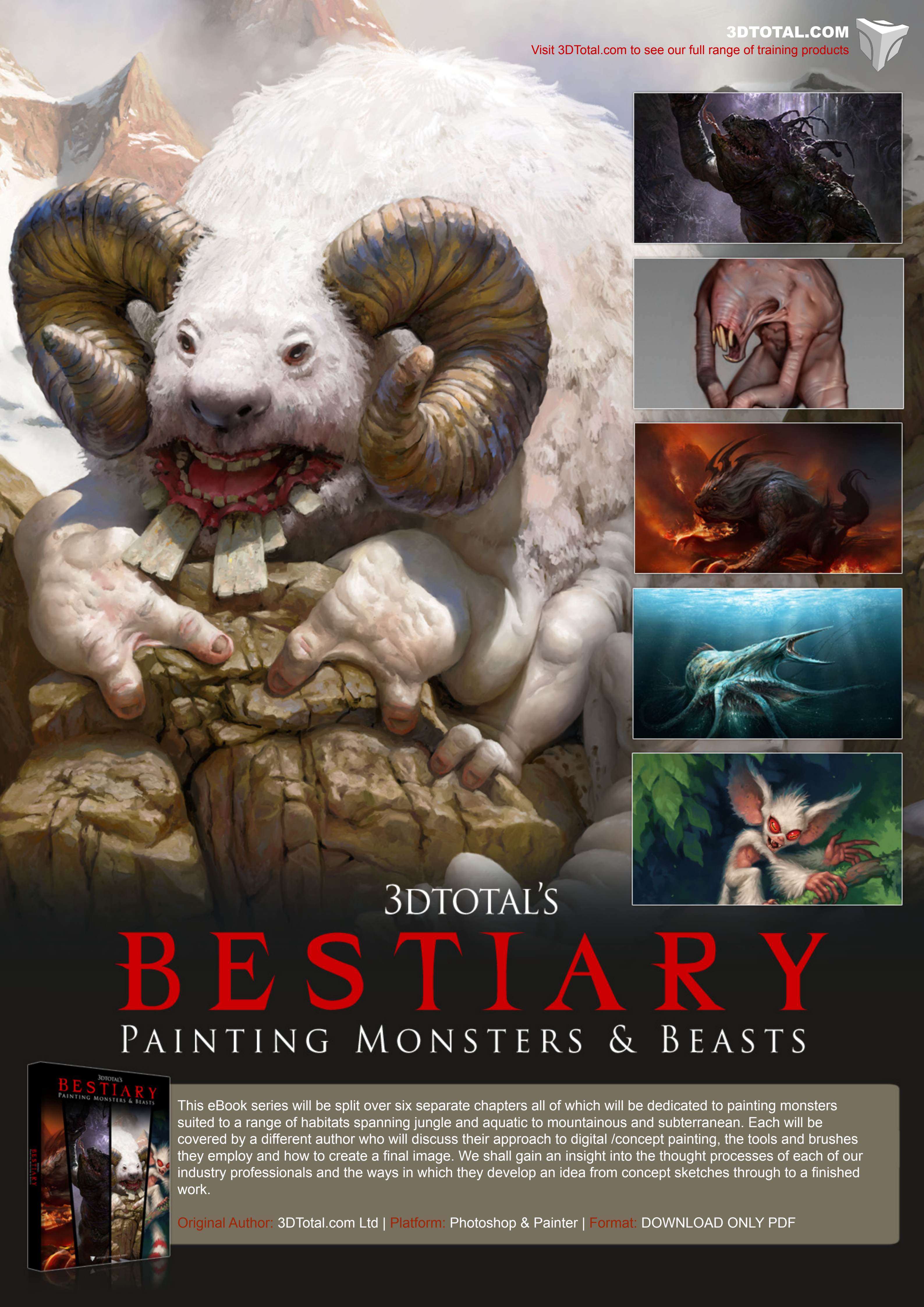

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